

SERVICE MANUAL

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Illust. is KRF-V6030D-S(M).



KRF-V4530D/V5030D/V6030D/VR-405/406/414

CONTENTS / ACCESSORIES / CAUTIONS

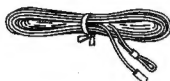
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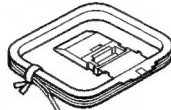
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Accessories

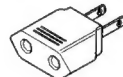
FM indoor antenna (1)
(T90-0836-05)



AM loop antenna (1)
(T90-0852-05)



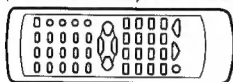
*AC plug adaptor (1)
(E03-0115-05)



*Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

For VR-406 and KRF-V6030D

Remote control unit (1)
(A70-1330-05): RC-R0609
(A70-1331-05): RC-R0610(E type)

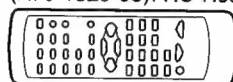


Battery cover (A09-1178-08)

Batteries (R6/AA) (2)



For VR-405, VR-414, KRF-V5030D, and KRF-V4530D
Remote control unit (1)
(A70-1328-05): RC-R0509
(A70-1329-05): RC-R0510(E,T type)



Battery cover (A09-1178-08)



Cautions

Copy from instruction manual.

The manual covers the VR-407, VR-406, VR-405, VR-414, KRF-V7030D, KRF-V6030D, KRF-V5030D, and KRF-V4530D. Items such as functions, number of jacks, and remote control details differ somewhat between these models. To confirm the functions available on the model you have purchased, refer to the table below.

Model name	Remote Control	Speaker out	Terminal VIDEO 3 jacks	Front input
VR-407 KRF-V7030D	RC-R0609	2 systems (A, B)	Equipped	Equipped
VR-406 KRF-V6030D	RC-R0609	2 systems (A, B)	Not equipped	Not equipped
VR-405/414 KRF-V5030D/ V4530D	RC-R0509	1 system	Not equipped	Not equipped

This manual is divided into four sections, Preparations, Operations, Other, and Remote Control.

Remote Control (Separate booklet) (VR-407/VR-406/KRF-V7030D/KRF-V6030D only)

Includes the "Quick Start Guide," which shows you how to operate other components using the remote control, as well as a detailed explanation of all remote control operations. Once you have registered your components with the proper setup codes, you'll be able to operate both this receiver and your other AV components (TV, VCR, DVD player, LD player, CD player, etc.) using the remote control supplied with this receiver.

VIDEO 2/MONITOR jacks (for VR-406/405/414/KRF-V6030D/V5030D/V4530D)

The receiver's VIDEO 2/MONITOR jacks can be used in two different ways. Make the appropriate setting for the component connected to the jack when the receiver is turned on.

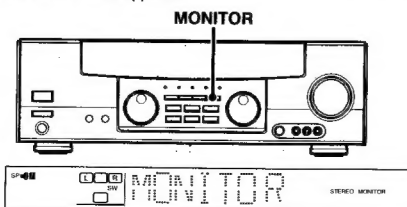
Use as a VIDEO 2 jack

You can connect a video deck or the like to these jacks and perform video playback and recording. The initial factory setting is "VIDEO 2".

Use as a MONITOR jack

You can connect a cassette deck or the like to these jacks and make use of the deck's monitoring function during recording. Alternately, you can connect a graphic equalizer to these jacks to apply compensation to the music signal.

To use the VIDEO 2/MONITOR jacks as MONITOR jacks, hold down the MONITOR key of the main unit for more two seconds so that the indication shown below appears.



- At the same time the setting is switched to "MONITOR," the audio input source switches to tuner and the video input source switches to VIDEO 1.
- To switch the setting back to "VIDEO 2," once again hold down the MONITOR key for two seconds or more.

Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 3 days.

- Power mode.
- Input selector settings.
- Device preset.
- Picture output.
- Speaker ON/OFF.
- Volume level.
- BASS, TREBLE, INPUT level.
- Subwoofer ON/OFF.
- Dimmer level.
- Monitor ON/OFF.
- MD/TAPE settings.
- 6CH/2CH input setting.
- Listen mode setting.
- Speaker settings.
- Input mode setting.
- Midnight mode setting.
- Broadcast band.
- Frequency setting.
- Preset stations.
- Tuning mode.

Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

For U.S.A. and Canada

Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

For other countries

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

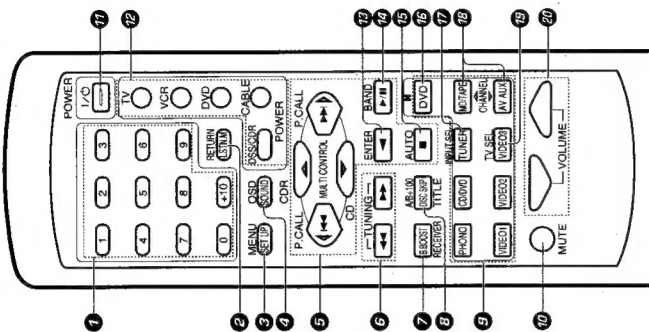
Model vs PCB

MODEL	ABB	POWER SUPPLY	POWER AMP	PREAMP	DISPLAY
KRF-V4530D	E4	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D	E1	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D	T5	-	X07-3140-51	X08-3010-11	X14-7122-72
KRF-V5030D	Y5	X00-3000-20	X07-3142-91	X08-3010-11	X14-7120-22
KRF-V5030D-S	E3	-	X07-3142-71	X08-3010-11	X14-7122-72
KRF-V5030D-S	I5	X00-3000-20	X07-3140-21	X08-3010-11	X14-7120-22
KRF-V5030D-S	M5	X00-3000-20	X07-3140-21	X08-3010-21	X14-7120-22
KRF-V5030D-S	X5	-	X07-3140-71	X08-3010-11	X14-7120-72
KRF-V5030DE	E2	-	X07-3142-71	X08-3010-11	X14-7122-72
VR-405	K5	-	X07-3140-10	X08-3010-10	X14-7120-11
VR-405	P5	-	X07-3140-10	X08-3010-10	X14-7120-11
VR-414	K4	-	X07-3140-11	X08-3010-10	X14-7120-11
VR-414	P4	-	X07-3140-11	X08-3010-10	X14-7120-11
KRF-V6030D	E6	-	X07-3132-72	X08-3010-10	X14-7122-71
KRF-V6030D-S	I6	X00-3000-20	X07-3130-22	X08-3010-10	X14-7120-21
KRF-V6030D-S	M6	X00-3000-20	X07-3130-22	X08-3010-21	X14-7120-21
KRF-V6030D-S	X6	-	X07-3130-72	X08-3010-10	X14-7120-71
KRF-V6030DE	E7	-	X07-3132-72	X08-3010-10	X14-7122-71
VR-406	K6	-	X07-3130-11	X08-3010-10	X14-7120-10
VR-406	P6	-	X07-3130-11	X08-3010-10	X14-7120-10

KRF-V4530D/V5030D/V6030D/VR-405/406/414

CONTROLS

Remote control unit (RC-R0609) (VR-407/406/KRF-V7030D/V6030D)

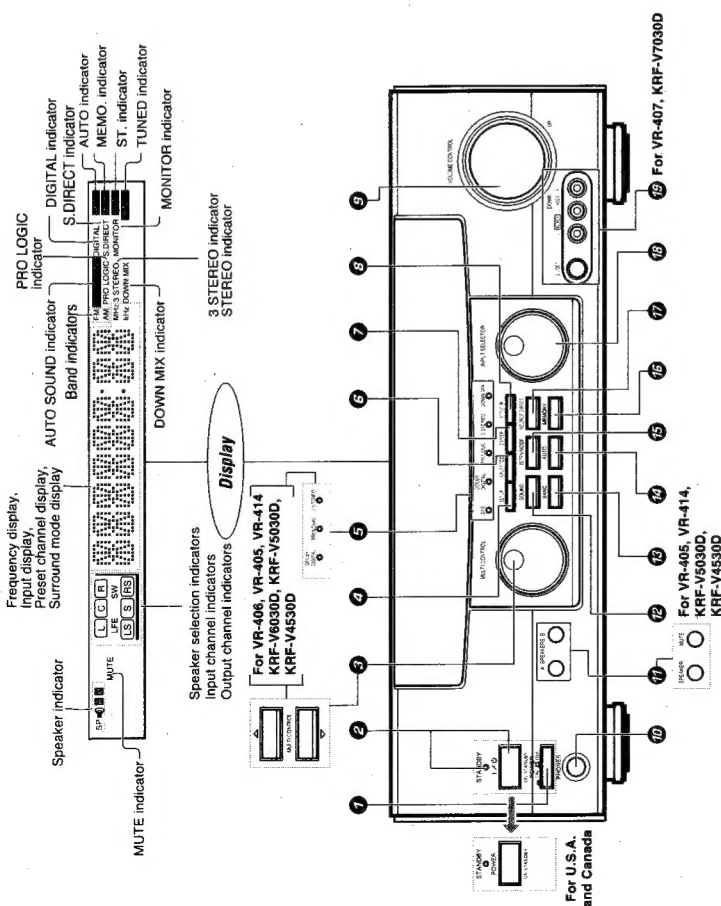


There are some cases in which keys (or knobs) that have the same function on the receiver and on the remote control have different names. In the instructions of this manual, if the names of corresponding keys (or knobs) on the receiver and remote control are different, the names of the remote control key is indicated in parentheses.

- Use to turn the other components on and off.
- ENTER key**
Use to operate other components.
- ← key**
If TAPE is selected as the input source, this key functions as the play key for side B of the cassette (the side facing away from the front of the deck).
- BAND key**
Use to select the broadcast band.
- ▶ key**
If CD is selected as the input source, this key functions as the play/pause key. If MD is selected as the input source, this key functions as the play key.
- AUTO key**
Use to select the auto tuning mode.
- ≡ key**
If CD or MD is selected as the input source, this key functions as the stop key.
- II key**
Use to operate other components.
- INPUT SEL. key**
Use to operate other components.
- CHANNEL 2/3 keys**
Use to select the channel.
- TV SEL. key**
Use to operate other components.
- VOLUME keys**
Use to adjust the receiver volume.

- B. BOOST key**
Use to select the maximum adjustment setting for the low frequency range.
- RECEIVER key**
Use to return to the operation of the receiver.
- DISC SKIP key**
If CD is selected as the input source, this key functions as the multi-CD player disc skip key.
- A/B key**
If TAPE is selected as the input source, this (A and B) of a double cassette deck.
- +100 key**
Use to select the disc number with the multi-CD player.
- TITLE key**
Use to operate other components.
- INPUT SELECTOR keys (DVD, PHONO, CD/DVD, TUNER, MD/TAPE, VIDEO1, VIDEO2, VIDEO3, AV AUX)**
Selects the input and sets the remote control to operate the component registered at the respective input.
- MUTE key**
Use to temporarily mute the sound.
- POWER key**
Use to turn the receiver on and off.
- POWER key (TV, VCR, DVD, DSS/CD, CABLE)**

- Numeric keys**
Provide functions identical to those of the original remote control supplied with the component you are controlling.
- LSTN.M key**
Use to select the listening mode.
- RETURN key**
Use to operate other components.
- SET UP key**
Use to select the surround sound settings.
- MENU key**
Use to operate other components.
- SOUND key**
Use to adjust the sound quality and ambience effects.
- OSD key**
Use to operate other components.
- MULTI CONTROL keys**
Used to make a variety of settings.
- P.CALL keys**
Use to operate other components.
- IF key**
If tuner is selected as the input source, these keys function as P.CALL keys.
- CD or MD keys**
If CD or MD is selected as the input source, these keys function as search keys.
- TUNING <=> keys**
Use to operate the tuner or selected component.



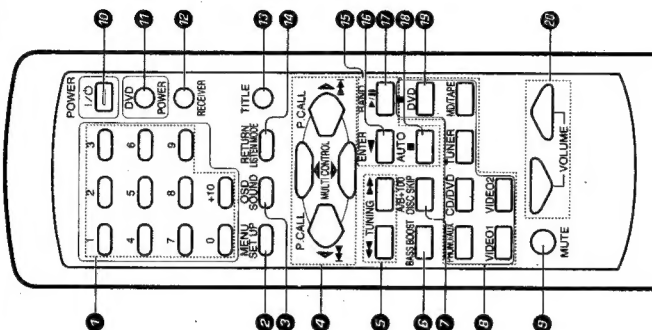
- POWER key**
(Except for U.S.A. and Canada)
Use to turn the main power ON/OFF.
- POWER key (For U.S.A. and Canada)**
Use to turn the power ON/OFF.
- STANDBY (I/O) key**
(Except for U.S.A. and Canada)
Use to switch the power ON/STANDBY when the POWER is turned ON.
- STANDBY indicator**
(For VR-407/KRF-V7030D)
Use to select the surround sound settings.
- MULTI CONTROL keys**
(For VR-406/405/414/KRF-V6030D/V5030D/V4530D)
Used to make a variety of settings.
- SET UP key**
Use to make a variety of settings.
- Surround indicators**
• **DTS indicator**
Lights when the receiver is in the DTS mode.
- MONITOR key**
Use to monitor the source that is connected to the MONITOR jack.
- VOLUME CONTROL knob**
Use for headphone listening.
- SPEAKERS A/B keys**
(For VR-407/406/KRF-V7030D/V6030D)
Use to turn the A/B speakers ON/OFF.
- SPEAKER key**
(For VR-405/414/KRF-V5030D/V4530D)
Use to turn the speaker ON/OFF.
- MUTE key**
(For VR-405/414/KRF-V5030D/V4530D)
Use to temporarily mute the sound.
- SOUND key**
Use to adjust the sound quality and ambience effects.
- BAND key**
Use to select the broadcast band.
- AUTO key**
Use to select the auto tuning mode.
- LISTEN MODE key**
Use to select the listening mode.
- MEMORY key**
Use to store radio stations in the preset memory.
- SOURCE DIRECT key**
Use to pass the source material direct to the amplifier.
- INPUT SELECTOR knob**
Use to select the input sources.
- AUX IN S VIDEO/VIDEO/AUDIO L/R**
(For VR-407/KRF-V7030D)

Standby mode
While the standby indicator of the unit is lit, a small amount of current is flowing into the unit's internal circuitry to back up the memory. This condition is referred to as the standby mode of the unit. While the unit is in the standby mode, it can be turned ON from the remote control unit.

KRF-V4530D/V5030D/V6030D/VR-405/406/414

CONTROLS

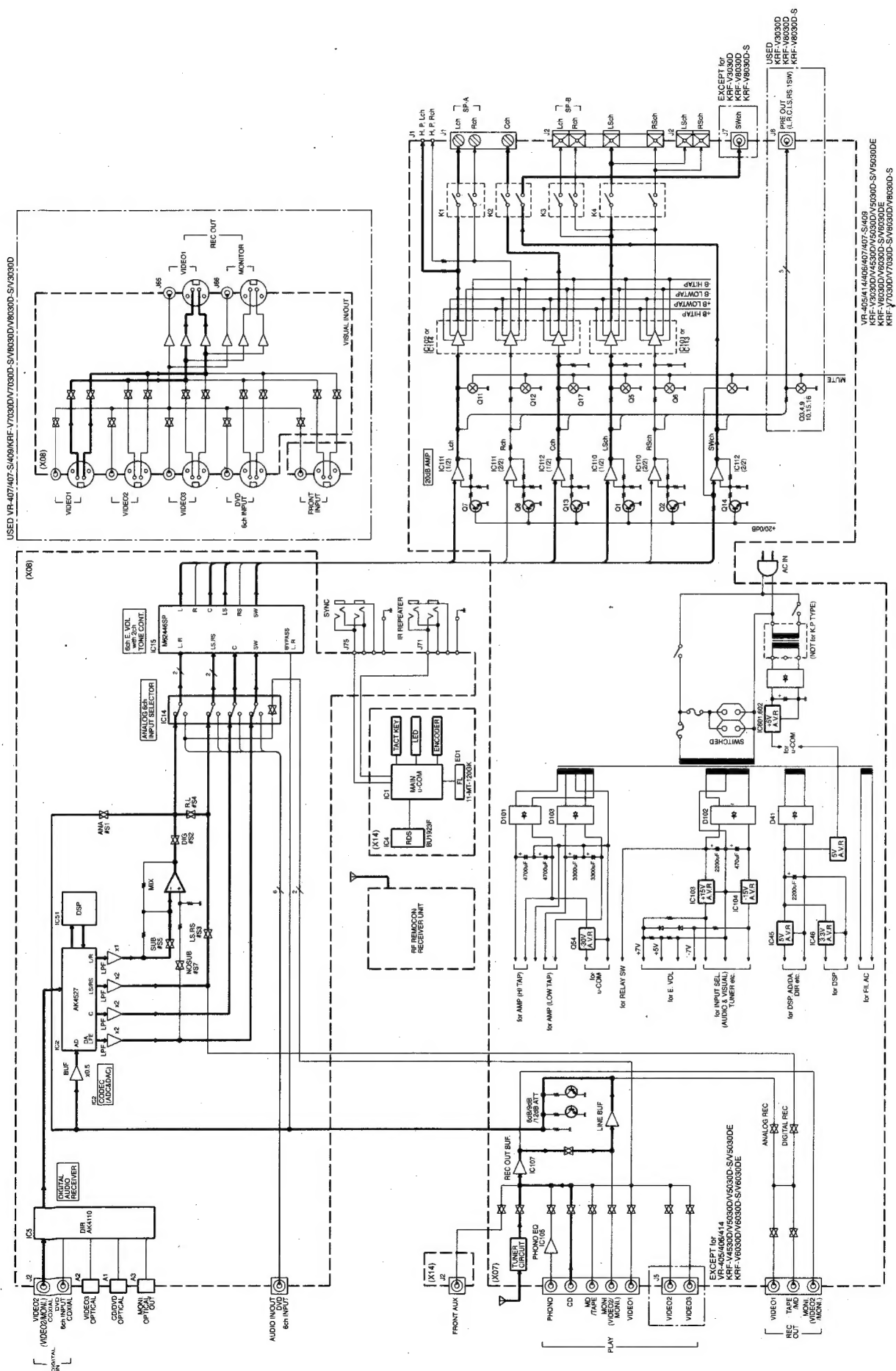
Remote control unit (RC-R0509) (VR-405/414/KRF-V5030D/V4530D)



- 1 Numeric keys**
If CD or MD is selected as the input source, these keys function as numeric keys. If tuner is selected as the input source, these keys are used to call up station presets.
- 2 SET UP key**
Use to select the surround sound settings.
- 3 MENU key**
Use to operate other components.
- 4 SOUND key**
Use to adjust the sound quality and ambience effects.
- 5 OSD key**
Use to operate other components.
- 6 MULTI CONTROL keys**
Used to make a variety of settings.
- 7 P. CALL keys**
If tuner is selected as the input source, these keys function as P. CALL keys.
- 8 <A> keys**
If CD or MD is selected as the input source, these keys function as search keys.
- 9 TUNING <A> keys**
If tuner is selected as the input source, these keys function as tuning keys.
- 10 BASS BOOST key**
Use to select the maximum adjustment setting for the low frequency range.
- 11 DISC SKIP key**
If CD is selected as the input source, this key functions as the multi-CD player disc skip key.
- 12 A/B key**
If TAPE is selected as the input source, this key (A and B) of a double cassette deck.
- 13 +100 key**
Use to select the disc number with the multi-CD player.
- 14 INPUT SELECTOR keys (DVD, PHONO/VIDEO1, VIDEO2)**
Selects the inputs and sets the remote control to operate the component registered at the respective input.
- 15 MUTE key**
Use to temporarily mute the sound.
- 16 POWER key**
Use to turn the receiver on and off.
- 17 DVD key**
Used to operate DVD player.
- 18 RECEIVER key**
For details, refer to the instruction manual on your DVD player.
- 19 TITLE key**
Use to return to the operation of the receiver.
- 20 LISTEN MODE key**
Use to operate other components.
- 21 VOLUME key**
Use to select the listening mode.
- 22 RETURN key**
Use to operate other components.
- 23 Component operation keys**
Use these keys to operate other components with system control connections to the receiver.
- 24 <A> key**
If tape is selected as the input source, this key functions as the play key for side B of the cassette (the side facing away from the front of the deck).
- 25 key**
If CD is selected as the input source, this key functions as the play/pause key.
- 26 <A> key**
If MD is selected as the input source, this key functions as the play key.
- 27 key**
If CD or MD is selected as the input source, this key functions as the stop key.
- 28 BAND key**
Use to operate other components.
- 29 AUTO key**
If tuner is selected as the input source, this key functions as the band selector key.
- 30 MUTE key**
If tuner is selected as the input source, this key functions as the AUTO key.
- 31 <A> key**
Use to operate other components.
- 32 VOLUME keys**
Use to adjust the receiver volume.

KRF-V4530D/V5030D/V6030D/VR-405/406/414

BLOCK DIAGRAM



KRF-V4530D/V5030D/V6030D/VR-405/406/414

CIRCUIT DESCRIPTION

Pin description of microprocessor : X14,IC1(MN101C35DRA)

Pin No.	Pin Name	I/O	Description
1	S. DATA	I/O	Serial data signal.
2	S.BUS	I/O	Serial busy signal.
3	SEL. ST1	O	Strobe output to input selector (IC106).
4	SEL/VOL/PLL DT	O	Data output to selector,volume and PLL IC.
5	SEL/VOL/PLL CLK	O	Clock output to selector,volume and PLL IC.
6	SEL. ST2	O	Strobe 2 output to input selector (IC109).
7	PLL. CE	O	PLL chip enable.
8	Vdd (+5v)	-	Power supply.
9	OSC OUT	O	8MHz clock output.
10	OSC IN	I	8MHz clock input.
11	Vss	-	Connected to ground.
12	X IN	-	Connected to ground.
13	X OUT	-	No used.
14	MMCD	-	Connected to ground.
15	Vref-	-	Connected to ground.
16,17	KEY2,KEY1	I	Input terminal of key1 and key2.
18	MODEL TYPE	I	Discrimination port of models.
19	TH. SENS	I	No used.
20	PROTECT	I	Detection port of protection signal 1.
21	PROTECT2	I	Detection port of protection signal 2.
22	S.LEVEL/CH SPACE	I	RDS S level and channel space changeover.
23	PLL DO	I	RDS PLL data signal input.
24	Vref+	-	Reference voltage of AD converter..
25	CE	I	Chip enable.
26	RESET	I	Reset signal input.
27	T. MUTE	O	Muting signal output to tuner.
28	RF ST	O	CE signal output of RF receiver IC.
29	RF DT	O	Data signal output of RF receiver IC.
30	RF CLK	O	Clock signal output of RF receiver IC.
31	VOL.ST	O	Latch output of electric volume.
32	DSP INTREQ	I/O	Detection port of DSP INTREQ.
33	DTS DET	I	Detection port of DTS data.
34	REMOCON	I	Remote control signal input.
35	DIR ERR	I	Detection port of DIR error signal.
36	DZF	I	Detection port of CODEC zero input.
37	RDS.CLK	I	RDS clock input.
38	RDS.DAT/CE2	I	RDS data input./u-COM chip enable 2.
39	DSP/DIR/CORDEC CDIN	O	Serial data output.
40	DSP/DIR/CDOUT	I	Serial data input.
41	DSP/DIR/CORDEC CCLK	O	Clock output to IC2, IC5 and IC51on X08.
42	DSP CS	O	DSP chip select.
43	DSP PD	O	DSP power down.
44	DIR CODEC CS	O	CODEC chip select.
45	DIR CODEC PD	O	DIR CODEC power down.
46	NO USE	-	No used.
47-57	1G-11G	O	FL grid control(1G-11G).
58-74	P1-P17	O	FL segment control(P1-P17).
75	PACK CONT.	O	Power pack control.
76	LIMMITER	O	Control port of A class power supply.
77	REAR RE	O	Relay control terminal of surround speaker.
78	CENTER RE	O	Relay control terminal of center speaker.
79	FB RE	O	Relay control terminal of front B speaker.
80	FA RE	O	Relay control terminal of front A speaker.

KRF-V4530D/V5030D/V6030D/VR-405/406/414

CIRCUIT DESCRIPTION

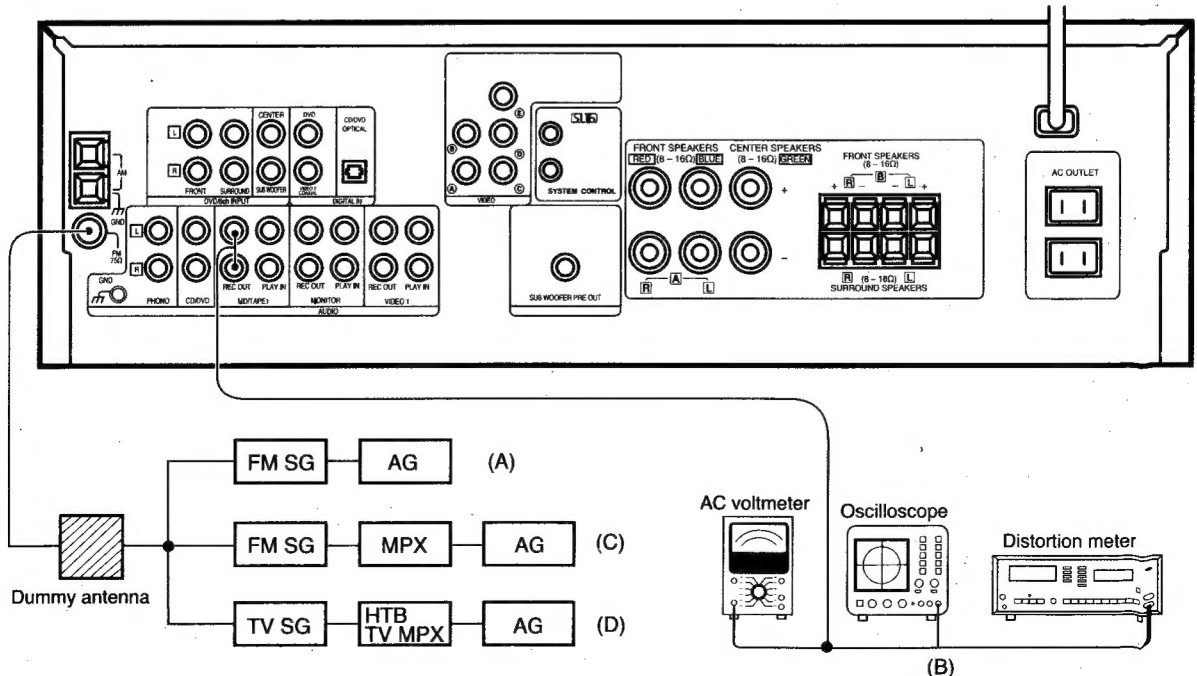
Pin No.	Pin Name	I/O	Description
81	POWER RE	O	Power relay control.
82	CS5. 1(DOWN MIX)LED	O	Control terminal of CS5.1(DOWN MIX) LED.
83	3 STEREO LED	O	Control terminal of 3 STEREO LED.
84	DTS LED	O	Control terminal of DTS LED.
85	DOLBY DIGITAL LED	O	Control terminal of DOLBY DIGITAL LED.
86	PROLOGIC LED	O	Control terminal of PROLOGIC LED.
87	STANDBY LED	O	Control terminal of STANDBY LED.
88	PRE OUT MUTE	O	Muting control terminal of pre out.
89	20dB ATT	O	20dB attenuation(volume) control terminal.
90	A.MUTE	O	Audio muting signal output.
91	ABOOT	O	EPROM CS.
92	MULTI. ENC CW	I	Multi cont. encoder signal input(clockwise).
93	MULTI. ENC CCW	I	Multi cont. encoder signal input(counterclockwise).
94	SEL. ENC CW	I	Selector encoder signal input(clockwise).
95	SEL. ENC CCW	I	Selector encoder signal input(counterclockwise).
96	VOL. ENC CW	I	Volume encoder signal input(clockwise).
97	VOL. ENC CCW	I	Volume encoder signal input(counterclockwise).
98	STEREO	I	Stereo (tuner) signal input.
99	SD	I	Tuner (SD)detector input.
100	Vpp(-30V)	-	FL power supply(-35V).

KRF-V4530D/V5030D/V6030D/VR-405/406/414

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION : EXCEPT E,T type		SELECTOR : FM					
1	DISCRIMINATOR (K,P only)	(A) 98.0MHz 1kHz, ±75kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	98.0MHz	L4 (X07)	0V	
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±75kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
FM SECTION : E,T type only		SELECTOR : FM ※ Adjust NO.1 and NO.2 repeat.					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	MONO 98.0MHz	L4 (X07)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X07)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (FRONT END : A1)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	

SYSTEM CONNECTIONS



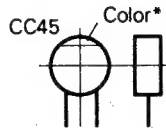
KRF-V4530D/V5030D/V6030D/VR-405/406/414

PARTS DESCRIPTIONS

CAPACITORS

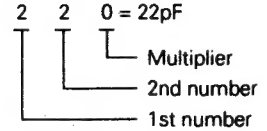
CC 45 TH 1H 220 J
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating
2 = Shape ... round, square, ect. 5 = Value
3 = Temp. coefficient 6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF - 10 ~ +50 Less than 4.7μF - 10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7

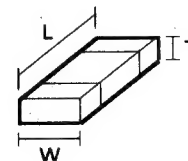
(Chip) (B, F)

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

- 1 = Type 5 = Rating wattage
2 = Shape 6 = Value
3 = Dimension 7 = Tolerance
4 = Temp. coefficient

Dimension



Dimension (Chip resistor)

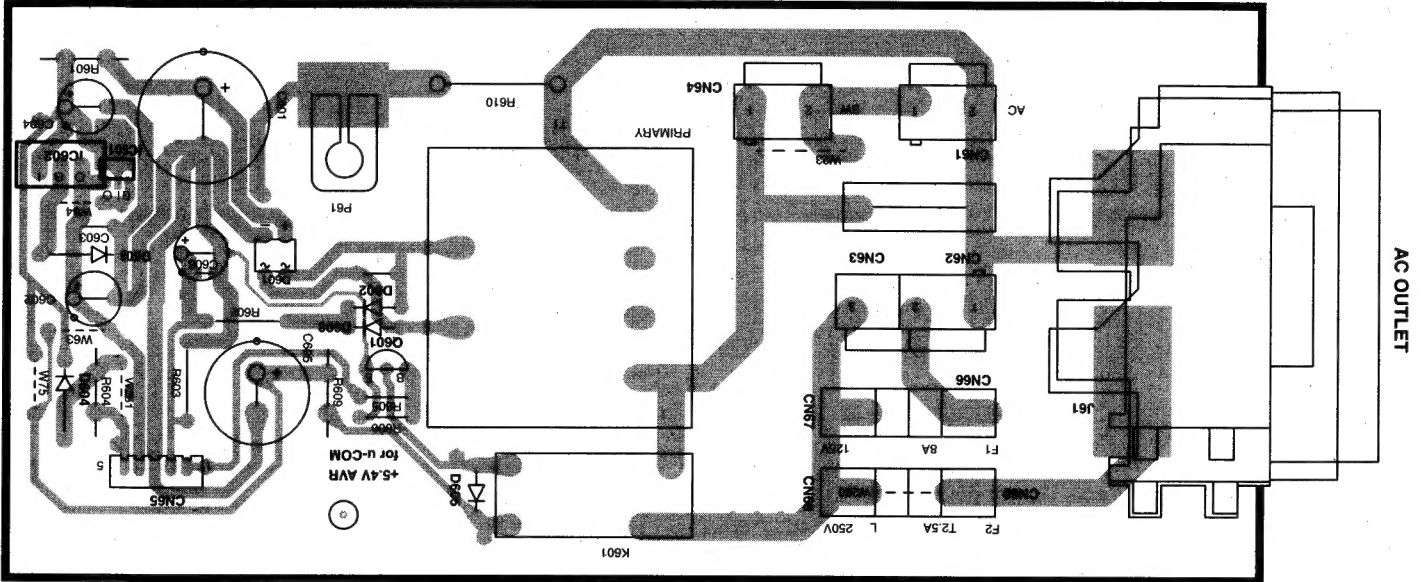
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

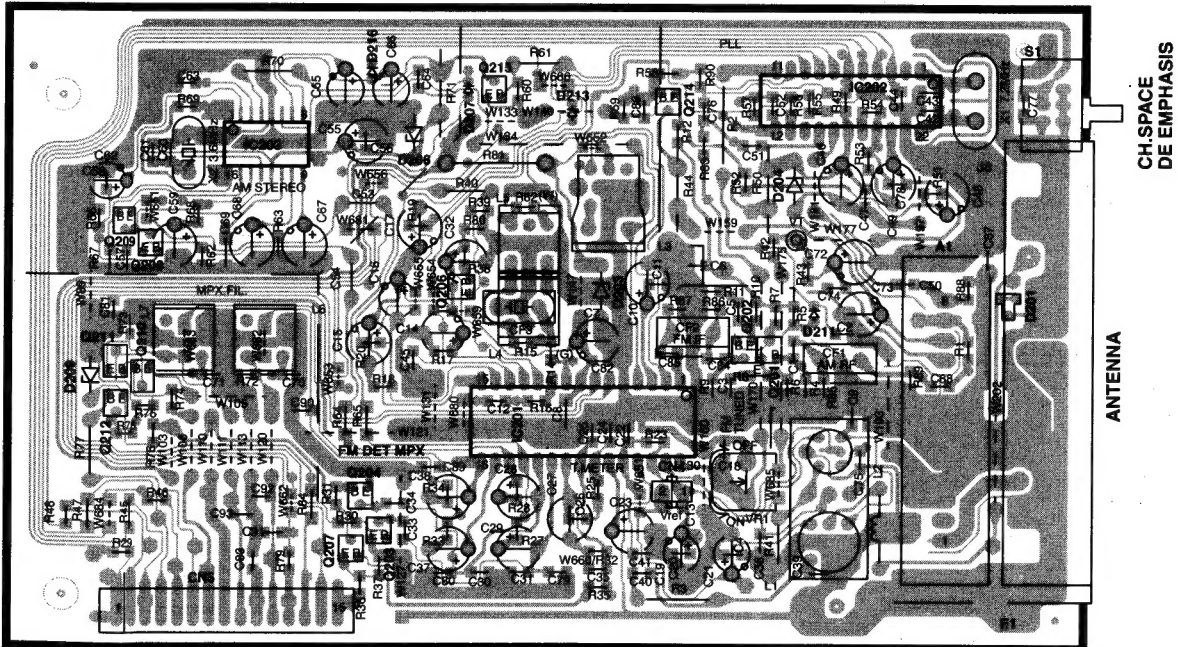
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD (Component side view)

X07-3130-10/X07-3140-10 C/3 (J70-1412-11)/(J70-1370-11)



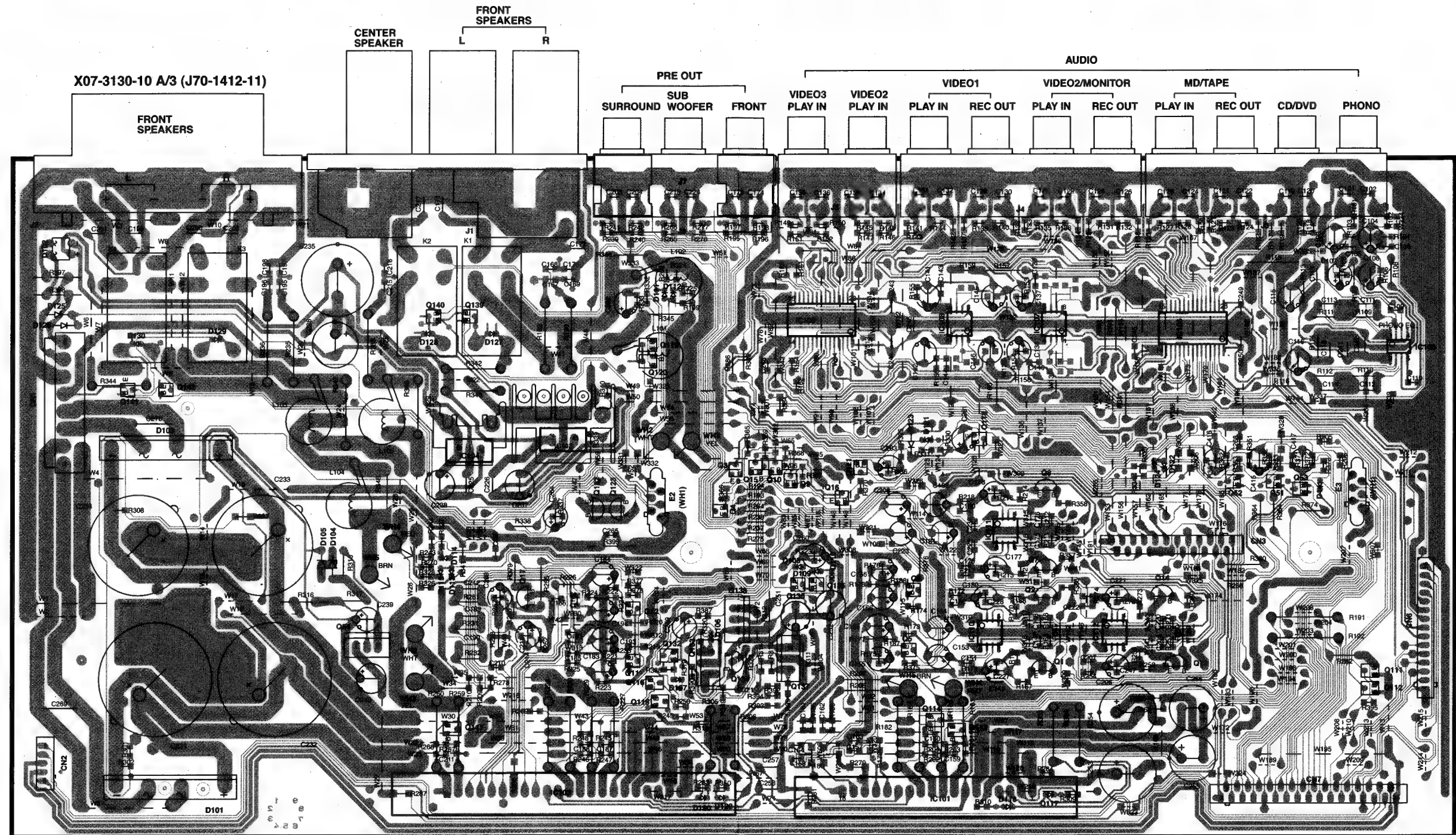
X07 B/3



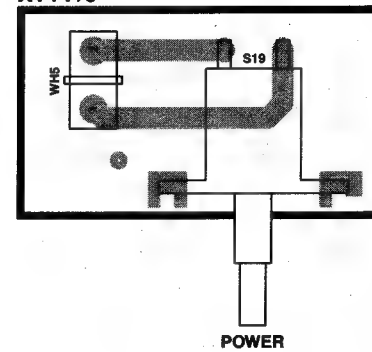
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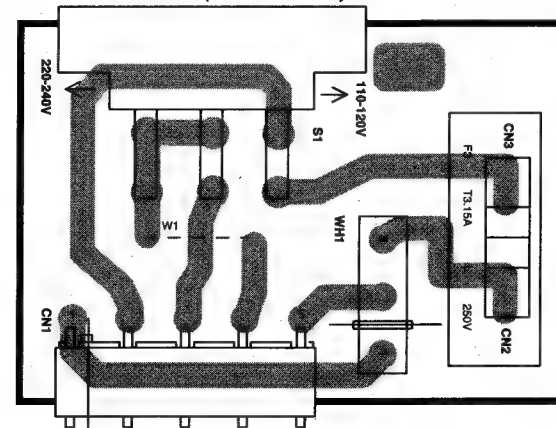
PC BOARD (Component side view)



X14 F/6



X00-3000-20 (J70-1368-01)

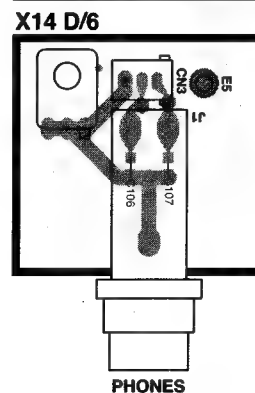
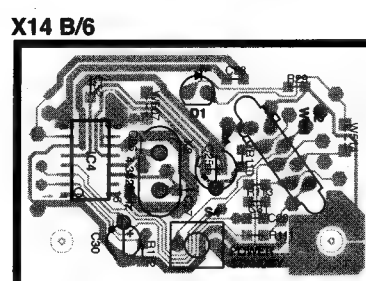
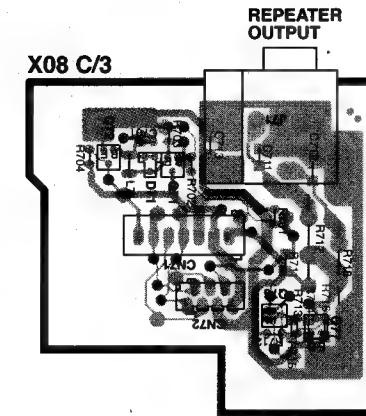
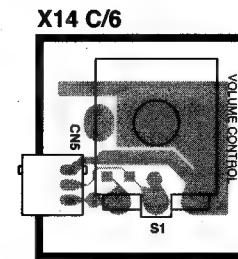
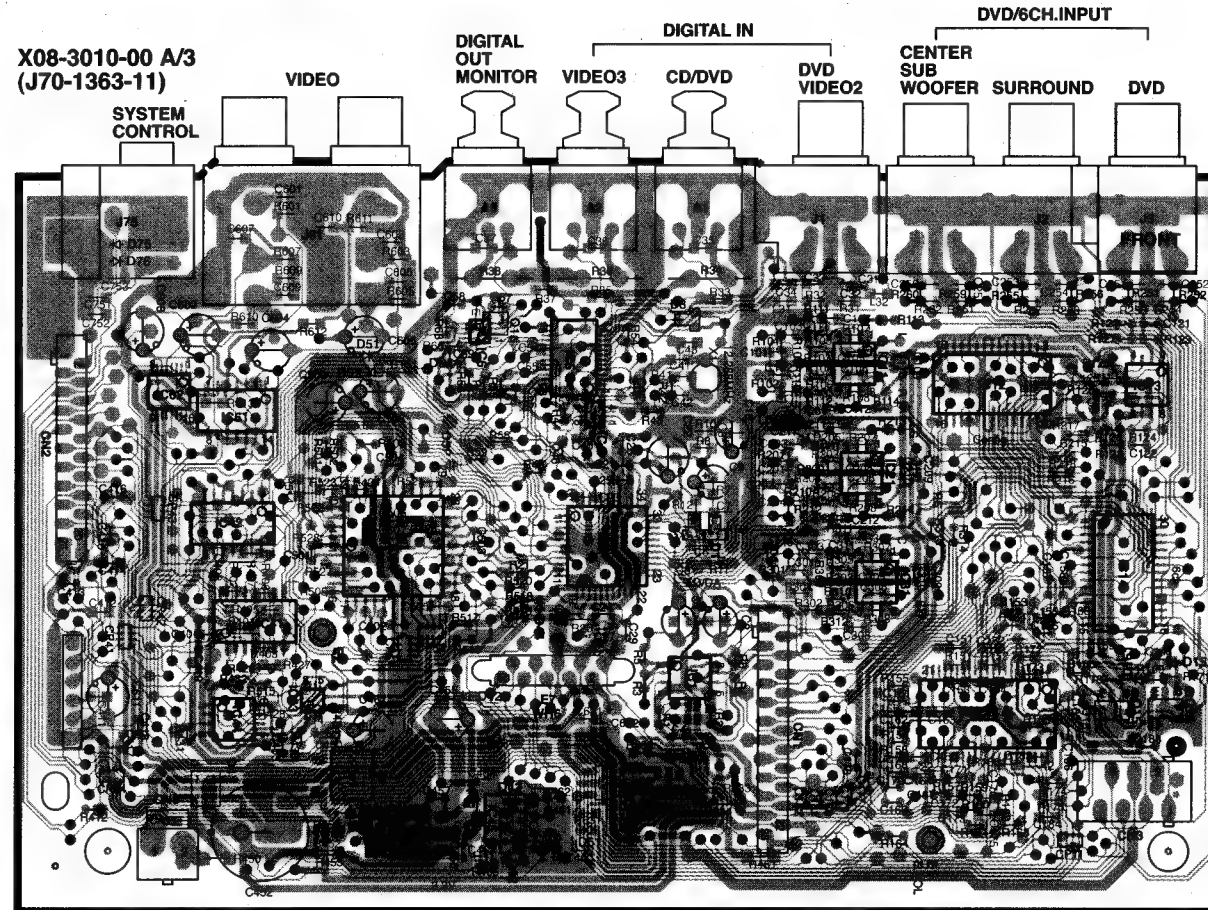


Refer to the schematic diagram for the value of resistors and capacitors.

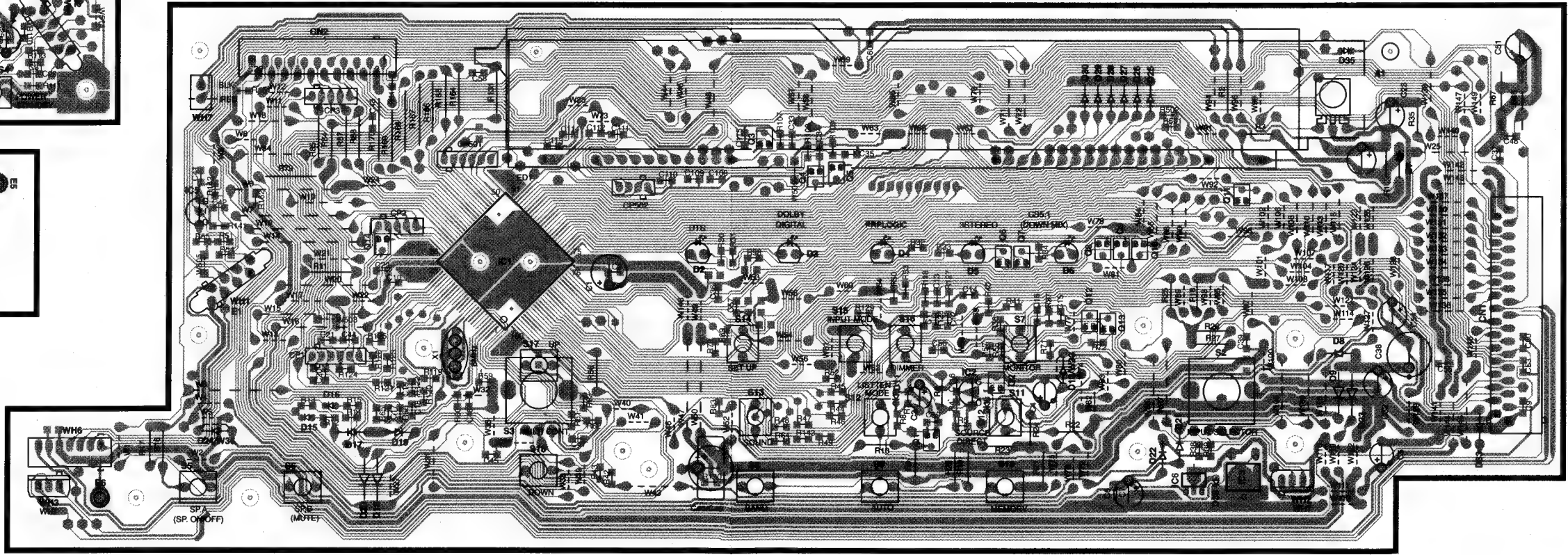
P	Q	R	S	T	U	V	W	X	Y
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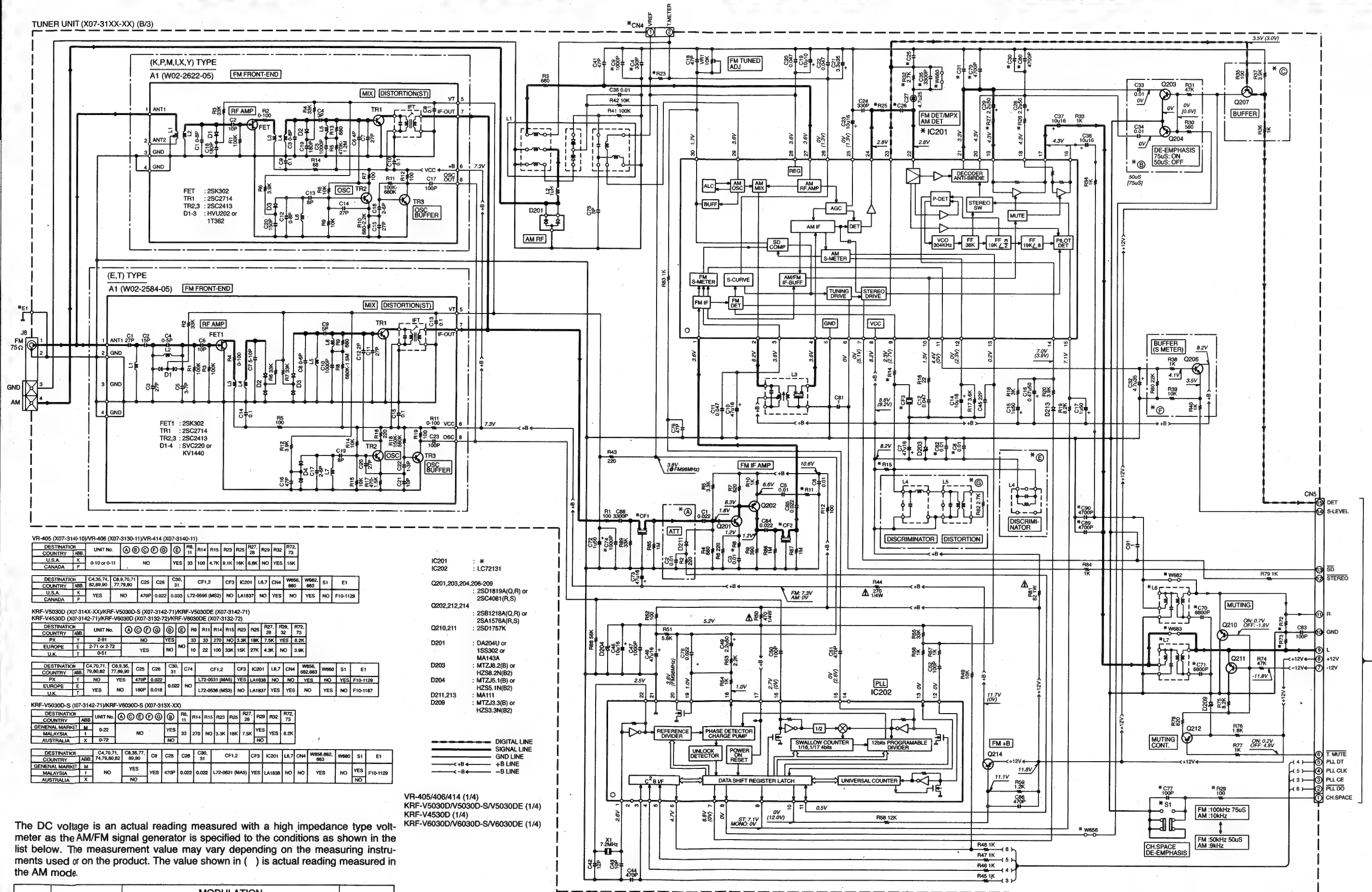
PC BOARD (Component side view)



X14-7120-10 A/6 (J70-1409-11)



TUNER UNIT (X07-31XX-XX) (B/3)



VR-405 (X07-3140-10)/VR-406 (X07-3130-11)/VR-414 (X07-3140-11)														
DESTINATION	COUNTRY	UNIT No.	A	B	C	D	E	F	G	H	I	J	K	L
U.S.A.	K	0-10 or 0-11	NO	YES	33	100	4.7K	8.1K	16K	8.8K	NO	YES	15K	
CANADA	P													

KRF-V5030D (X07-314X-XX)/KRF-V5030D-S (X07-3142-71)/KRF-V5030DE (X07-3142-72)														
DESTINATION	COUNTRY	UNIT No.	A	B	C	D	E	F	G	H	I	J	K	L
U.S.A.	K	2-81	NO	YES	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	
EUROPE	E	2-71 or 2-72	NO	YES	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	
U.K.	T	0-51	NO	YES	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	

KRF-V5030D-S (X07-3142-71)/KRF-V5030D-S (X07-313X-XX)														
DESTINATION	COUNTRY	UNIT No.	A	B	C	D	E	F	G	H	I	J	K	L
U.S.A.	K	0-22	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	
EUROPE	E	0-22	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	
U.K.	T	0-22	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	

KRF-V5030D-S (X07-3142-71)/KRF-V5030D-S (X07-313X-XX)														
DESTINATION	COUNTRY	UNIT No.	A	B	C	D	E	F	G	H	I	J	K	L
U.S.A.	K	0-22	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	
EUROPE	E	0-22	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	
U.K.	T	0-22	NO	YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM mode.

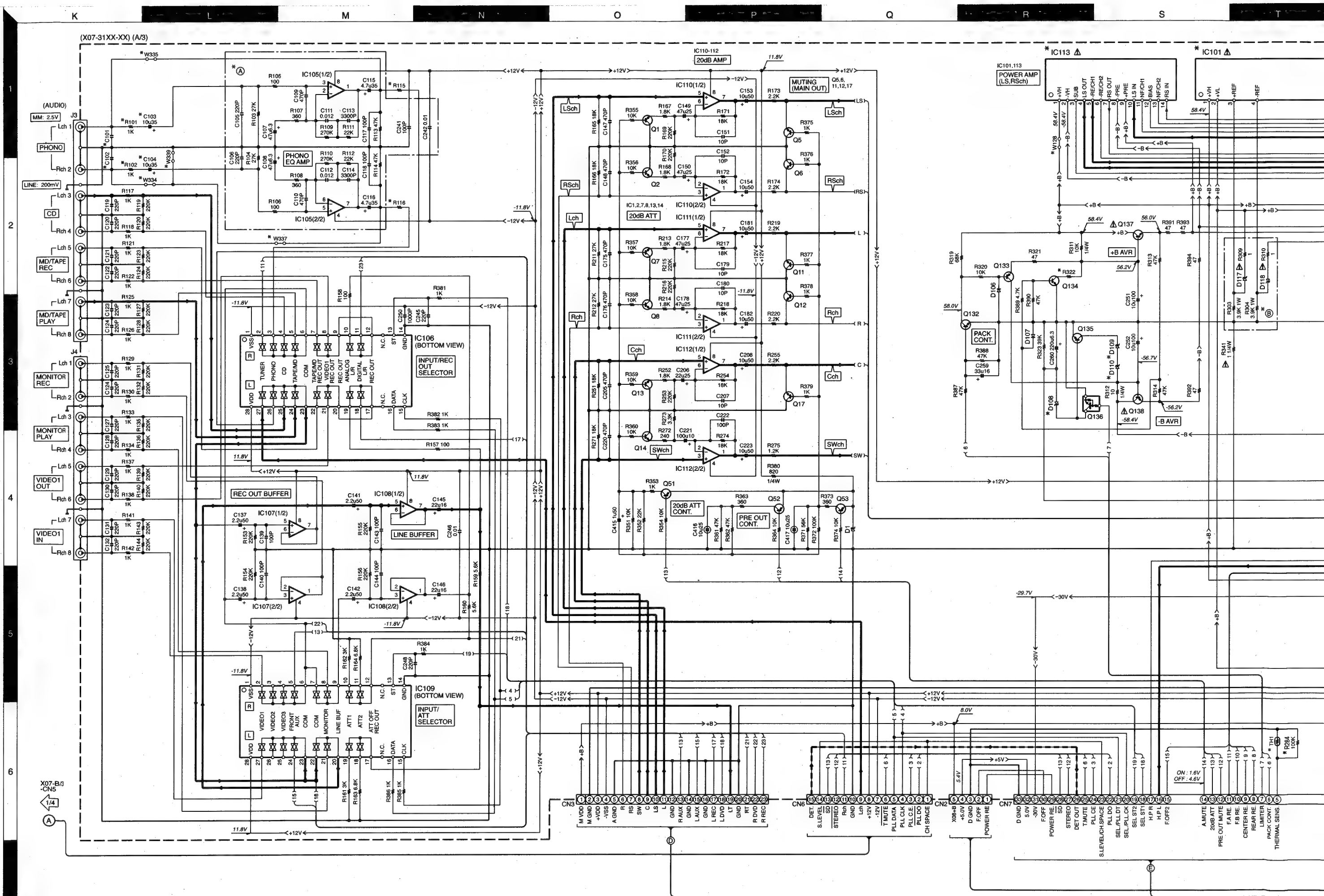
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

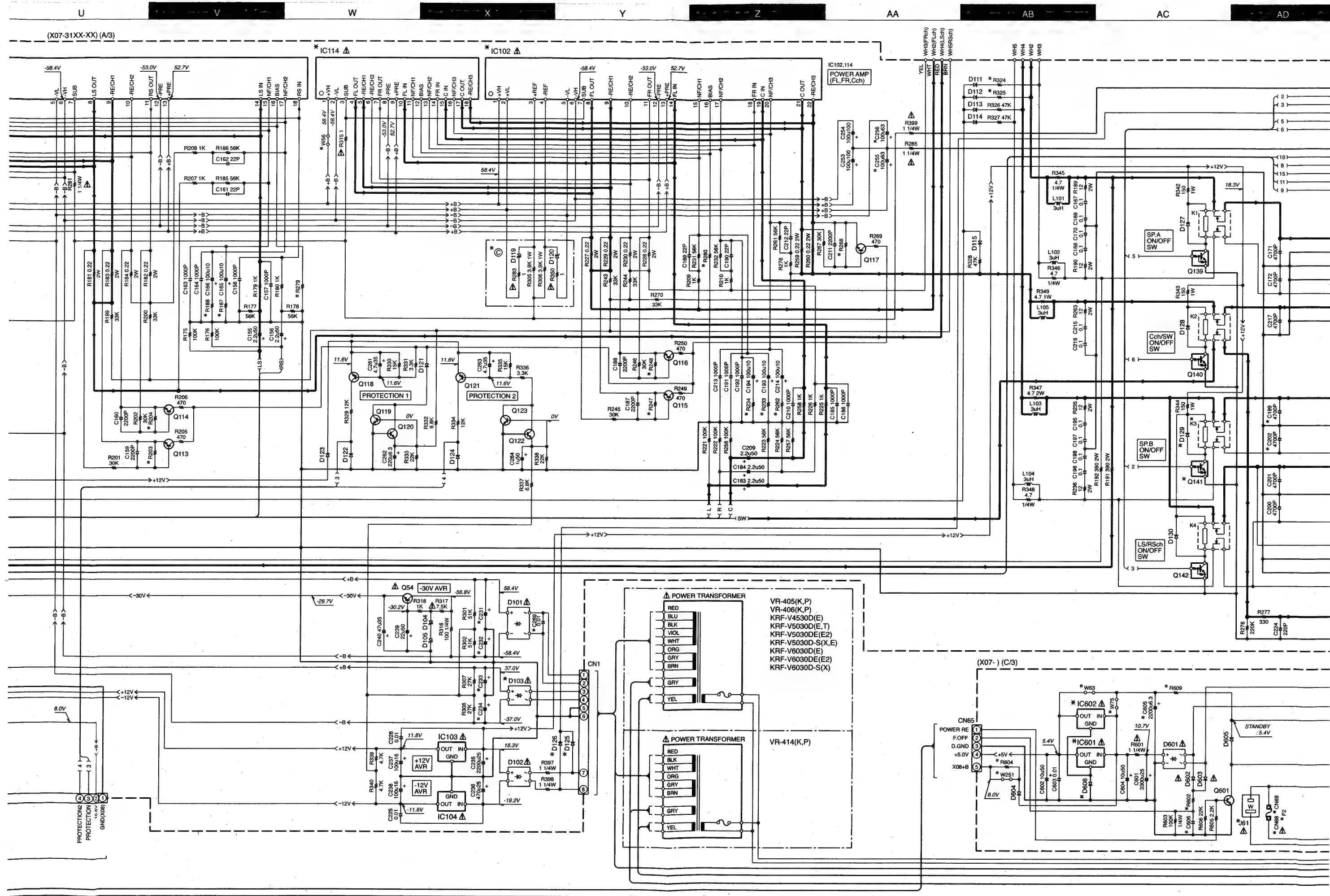
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y05-4050-10

KRF-V4530D/V5030D/V6030D/VR-405/406/414

KENWOOD





AE

AF

AG

AH

AI

AJ

AK

AL

AM

AN

(X07-) (A/3)

VR-406 (X07-3130-11)

DESTINATION		UNIT No.	(A)(B)(C)	C101, 102	C103,104,199, 202,255,256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102,284	R115, 116	R187,188, 233,234,262	R203,204,247, 248,268	R279, 280	R322	R324, 325	TH1	W56,128,334, 335,337	W339
COUNTRY	ABB.																														
U.S.A.	K	0-11	YES	39P	YES	4700u75	3300u42	NO	D5SBA20F03	UDZ8.2B	UDZ15B	UDZ16B	NO	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	100	1.8K	9.1K	33K	18K	75K	NO	NO	YES
CANADA	P																														

KRF-V6030D/V6030DE (X07-3132-72)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103, 104, 199, 202, 255, 256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R284	R322	R324, 325	TH1	W56, 128, 334, 335, 337	W339
COUNTRY	ABB.																																	
EUROPE	E	2-72	YES			39P	YES	4700u63	3300u35	NO	RBV-602LFA	UDZ6.2B	UDZ10B	UDZ13B	NO	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	100	2.4K	9.1K	33K	NO	18K	75K	YES	NO	YES

KRF-V6030D-S (X07-313X-XX)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103,104,199, 202,255,256	C231, 232	C233, 234	C269	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188, 233,234,262	R203,204,247, 248,268	R279, 280	R284	R322	R324, 325	TH1	W56,128,334, 335,337	W339
COUNTRY	ABB.																																	
GENERAL MARKET	M	0-22	YES	39P	YES	4700u75	3300u42	NO	RBV-602LFA	UDZ8.2B	UDZ15B	UDZ16B	YES	YES	STK412-020A	STK413-020A	NO	SCREW	8P	YES	YES	YES	100	1.8K	9.1K	33K	NO	18K	75K	YES	NO	YES		
MALAYSIA	I																																	

VR-405 (X07-3140-10)

DESTINATION		UNIT No.	(A)	(B)	C101, 102	C103, 104, 199, 202, 269	C231, 232	C233, 234	C255, 256	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R284	R322	R324, 325	TH1	W56, 128, 334, 335, 337	W339
U.S.A.	K	0-10	NO	YES	220P	NO	4700u75	3300u42	YES	D5SBA20F03	UDZ6.8B	UDZ16B	UDZ13B	NO	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	NO	1K	2.2K	11K	33K	YES	10K	75K	NO	YES	NO
CANADA	P																																

VR-414 (X07-3140-11)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103,104,199,202, 233,234,255,256	C231, 232	C269	D103	D108	D109,110	D125, 126,129	IC101,102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187,188, 233,234,262	R203,204,247, 248,268	R279,280, 322	R284	R324, 325	TH1	W56,128,334, 335,337	W339
COUNTRY	ABB																												
U.S.A.	K	0-11	NO	220P	NO	4700u63	YES	NO	UDZ3.3B	UDZ13B	NO	NO	YES	LEVER	4P	NO	NO	1K	2.7K	15K	10K	YES	200K	NO	YES	NO	YES	NO	
CANADA	P																												

KRF-V5030D-S (X07-314X-XX)

DESTINATION		UNIT No.	A	B	C	C101, 102	C103, 104, 199, 202, 255, 256	C190, 202, 269	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R284	R322	R324, 325	TH1	W56, 128, 339	W334, 335, 337
COUNTRY	ABB.																																	
GENERAL MARKET	M	0-21	YES	39P	YES	NO	4700u75	3300u42	NO	RBV-602LFA	UDZ6.8B	UDZ16B	UDZ13B	YES	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	YES	100	2.2K	11K	33K	NO	10K	75K	YES	YES	NO	
MAI AYISA	I																																	

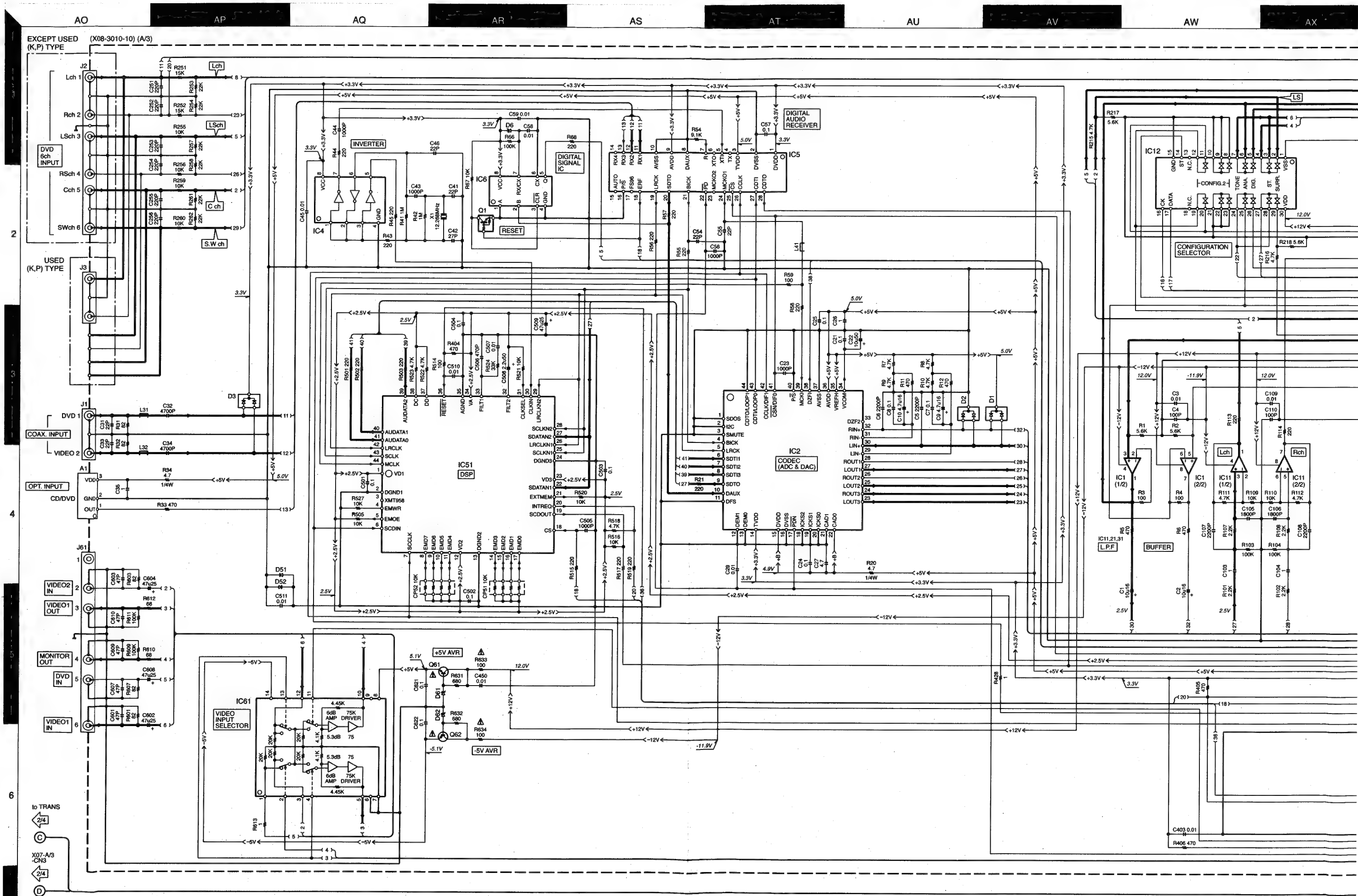
KRF-V5030D (X07-314X-XX)/KRF-V4530D/V5030DE/V5030D-S (X07-3142-71)

KRF-V4530D/V5030DE/V5030D-S (X07-3142-71)																																					
DESTINATION		UNIT No.	A	B	C	C101, 102	C103, 104, 255, 256	C199, 202, 269	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	D129	IC101	IC102	IC113, 114	J1	J2	K3	Q141	R101, 102	R115, 116	R187, 188, 233, 234, 262	R203, 204, 247, 248, 268	R279, 280	R284	R322	R324, 325	TH1	W56, 128, 339	W334, 335, 337			
COUNTRY	ABB.																																				
PX	Y	2-91	YES	39P	YES	NO	4700u75	3300u42	D5SBA20F03	UDZ6.8B	UDZ16B	UDZ13B	YES	NO	STK412-010A	STK413-010A	NO	LEVER	4P	NO	NO	YES	100	2.2K	11K	33K	NO	10K	75K	YES	YES	NO					
EUROPE	E	2-71											4700u63											3300u35					RBV-602LFA				UDZ5.6B	UDZ11B	UDZ10B	NO	100K
U.K.	T	0-51																																			

(X07-) (C/3)

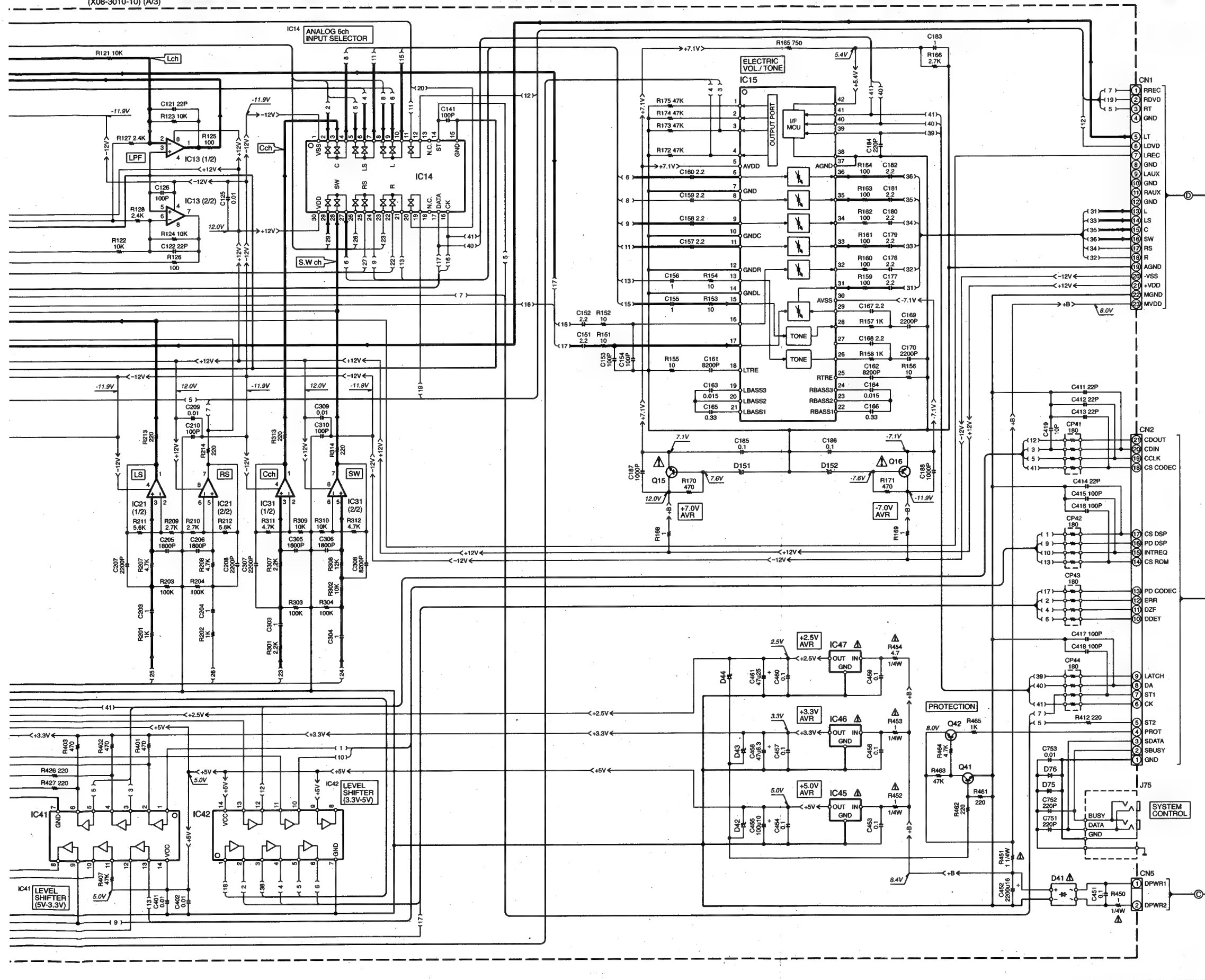
VR-406 (X07-3130-11)

DESTINATION		UNIT NO.	C605	C606	C608	C609	C610	C611	C612	C613	C614	C615	C616	C617	C618	C619	C620	C621	C622	C623	C624	C625	C626	C627	C628	C629	C630	C631	C632	C633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C721	C722	C723	C724	C725	C726	C727	C728	C729	C730	C731	C732	C733	C734	C735	C736	C737	C738	C739	C740	C741	C742	C743	C744	C745	C746	C747	C748	C749	C750	C751	C752	C753	C754	C755	C756	C757	C758	C759	C760	C761	C762	C763	C764	C765	C766	C767	C768	C769	C770	C771	C772	C773	C774	C775	C776	C777	C778	C779	C780	C781	C782	C783	C784	C785	C786	C787	C788	C789	C790	C791	C792	C793	C794	C795	C796	C797	C798	C799	C800	C801	C802	C803	C804	C805	C806	C807	C808	C809	C810	C811	C812	C813	C814	C815	C816	C817	C818	C819	C820	C821	C822	C823	C824	C825	C826	C827	C828	C829	C830	C831	C832	C833	C834	C835	C836	C837	C838	C839	C840	C841	C842	C843	C844	C845	C846	C847	C848	C849	C850	C851	C852	C853	C854	C855	C856	C857	C858	C859	C860	C861	C862	C863	C864	C865	C866	C867	C868	C869	C870	C871	C872	C873	C874	C875	C876	C877	C878	C879	C880	C881	C882	C883	C884	C885	C886	C887	C888	C889	C890	C891	C892	C893	C894	C895	C896	C897	C898	C899	C900	C901	C902	C903	C904	C905	C906	C907	C908	C909	C910	C911	C912	C913	C914	C915	C916	C917	C918	C919	C920	C921	C922	C923	C924	C925	C926	C927	C928	C929	C930	C931	C932	C933	C934	C935	C936	C937	C938	C939	C940	C941	C942	C943	C944	C945	C946	C947	C948	C949	C950	C951	C952	C953	C954	C955	C956	C957	C958	C959	C960	C961	C962	C963	C964	C965	C966	C967	C968	C969	C970	C971	C972	C973	C974	C975	C976	C977	C978	C979	C980	C981	C982	C983	C984	C985	C986	C987	C988	C989	C990	C991	C992	C993	C994	C995	C996	C997	C998	C999	C1000	C1001	C1002	C1003	C1004	C1005	C1006	C1007	C1008	C1009	C1010	C1011	C1012	C1013	C1014	C1015	C1016	C1017	C1018	C1019	C1020	C1021	C1022	C1023	C1024	C1025	C1026	C1027	C1028	C1029	C1030	C1031	C1032	C1033	C1034	C1035	C1036	C1037	C1038	C1039	C1040	C1041	C1042	C1043	C1044	C1045	C1046	C1047	C1048	C1049	C1050	C1051	C1052	C1053	C1054	C1055	C1056	C1057	C1058	C1059	C1060	C1061	C1062	C1063	C1064	C1065	C1066	C1067	C1068	C1069	C1070	C1071	C1072	C1073	C1074	C1075	C1076	C1077	C1078	C1079	C1080	C1081	C1082	C1083	C1084	C1085	C1086	C1087	C1088	C1089	C1090	C1091	C1092	C1093	C1094	C1095	C1096	C1097	C1098	C1099	C1100	C1101	C1102	C1103	C1104	C1105	C1106	C1107	C1108	C1109	C1110	C1111	C1112	C1113	C1114	C1115	C1116	C1117	C1118	C1119	C1120	C1121	C1122	C1123	C1124	C1125	C1126	C1127	C1128	C1129	C1130	C1131	C1132	C1133	C1134	C1135	C1136	C1137	C1138	C1139	C1140	C1141	C1142	C1143	C1144	C1145	C1146	C1147	C1148	C1149	C1150	C1151	C1152	C1153	C1154	C1155	C1156	C1157	C1158	C1159	C1160	C1161	C1162	C1163	C1164	C1165	C1166	C1167	C1168	C1169	C1170	C1171	C1172	C1173	C1174	C1175	C1176	C1177	C1178	C1179	C1180	C1181	C1182	C1183	C1184	C1185	C1186	C1187	C1188	C1189	C1190	C1191	C1192	C1193	C1194	C1195	C1196	C1197	C1198	C1199	C1200	C1201	C1202	C1203	C1204	C1205	C1206	C1207	C1208	C1209	C1210	C1211	C1212	C1213	C1214	C1215	C1216	C1217	C1218	C1219	C1220	C1221	C1222	C1223	C1224	C1225	C1226	C1227	C1228	C1229	C1230	C1231	C1232	C1233	C1234	C1235	C1236	C1237	C1238	C1239	C1240	C1241	C1242	C1243	C1244	C1245	C1246	C1247	C1248	C1249	C1250	C1251	C1252	C1253	C1254	C1255	C1256	C1257	C1258	C1259	C1260	C1261	C1262	C1263	C1264	C1265	C1266	C1267	C1268	C1269	C1270	C1271	C1272	C1273	C1274	C1275	C1276	C1277	C1278	C1279	C1280	C1281	C1282	C1283	C1284	C1285	C1286	C1287	C1288	C1289	C1290	C1291	C1292	C1293	C1294	C1295	C1296	C1297	C1298	C1299	C1300	C1301	C1302	C1303	C1304	C1305	C1306	C1307	C1308	C1309	C1310	C1311	C1312	C1313	C1314	C1315	C1316	C1317	C1318	C1319	C1320	C1321	C1322	C1323	C1324	C1325	C1326	C1327	C1328	C1329	C1330	C1331	C1332	C1333	C1334	C1335	C1336	C1337	C1338	C1339	C1340	C1341	C1342	C1343	C1344	C1345	C1346	C1347	C1348	C1349	C1350	C1351	C1352	C1353	C1354	C1355	C1356	C1357	C1358	C1359	C1360	C1361	C1362	C1363	C1364	C1365	C1366	C1367	C1368	C1369	C1370	C1371	C1372	C1373	C1374	C1375	C1376	C1377	C1378	C1379	C1380	C1381	C1382	C1383	C1384	C1385	C1386	C1387	C1388	C1389	C1390	C1391	C1392	C1393	C1394	C1395	C1396	C1397	C1398	C1399	C1400	C1401	C1402	C1403	C1404	C1405	C1406	C1407	C1408	C1409	C1410	C1411	C1412	C1413	C1414	C1415	C1416	C1417	C1418	C1419	C1420	C1421	C1422	C1423	C1424	C1425	C1426	C1427	C1428	C1429	C1430	C1431	C1432	C1433	C1434	C1435	C1436	C1437	C1438	C1439	C1440	C1441	C1442	C1443	C1444	C1445	C1446	C1447	C1448	C1449	C1450	C1451	C1452	C1453	C1454	C1455	C1456	C1457	C1458	C1459	C1460	C1461	C1462	C1463	C1464	C1465	C1466	C1467	C1468	C1469	C1470	C1471	C1472	C1473	C1474	C1475	C1476	C1477	C1478	C1479	C1480	C1481	C1482	C1483	C1484	C1485	C1486	C1487	C1488	C1489	C1490	C1491	C1492	C1493	C1494	C1495	C1496	C1497	C1498	C1499	C1500	C1501	C1502	C1503	C1504	C1505	C1506	C1507	C1508	C1509	C1510	C1511	C1512	C1513	C1514	C1515	C1516	C1517	C1518	C1519	C1520	C1521	C1522	C1523	C1524	C1525	C1526	C1527	C1528	C1529	C1530	C1531	C1532	C1533	C1534	C1535	C1536	C1537	C1538	C1539	C1540	C1541	C1542	C1543	C1544	C1545	C1546	C1547	C1548	C1549	C1550	C1551	C1552	C1553	C1554	C1555	C1556	C1557	C1558	C1559	C1560	C1561	C1562	C1563	C1564	C1565	C1566	C1567	C1568	C1569	C1570	C1571	C1572	C1573	C1574	C1575	C1576	C1577	C1578	C1579	C1580	C1581	C1582	C1583	C1584	C1585	C1586	C1587	C1588	C1589	C1590	C1591	C1592	C1593	C1594	C1595	C1596	C1597	C1598	C1599	C1600	C1601	C1602	C1603	C1604	C1605	C1606	C1607	C1608	C1609	C1610	C1611	C1612	C1613	C1614	C1615	C1616	C1617	C1618	C1619	C1620	C1621	C1622	C1623	C1624	C1625	C1626	C1627	C1628	C1629	C1630	C1631	C1632	C1633	C1634	C1635	C1636	C1637	C1638	C1639	C1640	C1641	C1642	C1643	C1644	C1645	C1646	C1647	C1648	C1649	C1650	C1651	C1652	C1653	C1654	C1655	C1656	C1657	C1658	C1659	C1660	C1661	C1662	C1663	C1664	C1665	C1666	C1667	C1668	C1669	C1670	C1671	C1672	C1673	C1674	C1675	C1676	C1677	C1678	C1679	C1680	C1681	C1682	C1683	C1684	C1685	C1686	C1687	C1688	C1689	C1690	C1691	C1692	C1693	C1694	C1695	C1696	C1697	C1698	C1699	C1700	C1701	C1702	C1703	C1704	C1705	C1706	C1707	C1708	C1709	C1710	C1711	C1712	C1713	C1714	C1715	C1716	C1717	C1718	C1719	C1720	C1721	C1722	C1723	C1724	C1725	C1726	C1727	C1728	C1729	C1730	C1731	C1732	C1733	C1734	C1735	C1736	C1737	C1738	C1739	C1740	C1741	C1742	C1743	C1744	C1745	C1746	C1747	C1748	C1749	C1750	C1751	C1752	C1753	C1754	C1755	C1756	C1757	C1758	C1759	C1760	C1761	C1762	C1763	C1764	C1765	C1766	C1767	C1768	C1769	C1770	C1771	C1772	C1773	C1774	C1775	C1776	C1777	C1778	C1779	C1780	C1781	C1782	C1783	C1784	C1785	C1786	C1787	C1788	C1789	C1790	C1791	C1792	C1793	C1794	C1795	C1796	C1797	C1798	C1799	C1800	C1801	C1802	C1803	C1804	C1805	C1806	C1807	C1808	C1809	C1810	C1811	C1812	C1813	C1814	C1815	C1816	C1817	C1818	C1819	C1820	C1821	C1822	C1823	C1824	C1825	C1826	C1827	C1828	C1829	C1830	C1831	C1832	C1833	C1834	C1835	C1836	C1837	C1838	C1839	C1840	C1841	C1842	C1843	C1844	C1845	C1846	C1847	C1848	C1849	C1850	C1851	C1852	C1853	C1854	C1855	C1856	C1857	C1858	C1859	C1860	C1861	C1862	C1863	C1864	C1865	C1866	C1867	C1868	C1869	C1870	C1871	C1872	C1873	C1874	C1875	C1876	C1877	C1878	C1879	C1880	C1881	C1882	C1883	C1884	C1885	C1886	C1887	C1888	C1889	C1890	C1891	C1892	C1893	C1894	C1895	C1896	C1897	C1898	C1899	C1900	C1901	C1902	C1903	C1904	C1905	C1906	C1907	C1908	C1909	C1910	C1911	C1912	C1913	C1914	C1915	C1916	C1917	C1918	C1919	C1920	C1921	C1922	C1923	C1924	C1925	C1926	C1927	C1928	C1929	C1930	C1931	C1932	C1933	C1934	C1935	C1936	C1937	C1938	C1939	C1940	C1941	C1942	C1943	C1944	C1945	C1946	C1947	C1948	C1949	C1950	C1951	C1952	C1953	C1954	C1955	C1956	C1957	C1958	C1959	C1960	C1961	C1962	C1963	C1964	C1965	C1966	C1967	C1968	C1969	C1970	C1971	C1972	C1973	C1974	C1975	C1976	C1977	C1978	C1979	C1980	C1981	C1982	C1983	C1984	C1985	C1986	C1987	C1988	C1989	C1990	C1991	C1992	C1993	C1994	C1995	C1996	C1997	C1998	C1999	C2000	C2001	C2002	C2003	C2004	C2005	C2006	C2007	C2008	C2009	C2010	C2011	C2012	C2013	C2014	C2015	C2016	C2017	C2018	C2019	C2020	C2021	C2022	C20
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(X08-3010-10) (A/3)

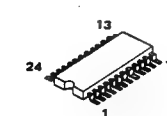


IC1,11,13,21,31
 IC2 : NJM4558MD
 IC4 : AK4527-VQ
 IC5 : TC7WU04FU
 IC6 : AK4110-VF
 IC12,14 : TC7WH123FU
 IC15 : NJM7311AM
 IC16 : M62446FP
 IC41 : TC74HC07AF
 IC42 : TC74HCT7007AF
 IC45 : TA48M033F
 IC46 : TA48M033F
 IC47 : TA48M033F
 IC51 : CS49323-CLR or CS49323-CLR
 IC61 : NJM2279M
 Q1 : DTC124EUA or UN5212
 Q15,61 : 2SD1664(Q,R) or 2SD1963(R,S)-G
 Q16,62 : 2SB1132(Q,R)-G or 2SB1308(Q,R)-G
 Q41 : 2SC481(R,S) or 2SD1819A(Q,R)
 Q42 : 2SA1576(R,S) or 2SB1218A(Q,R)
 D1,3 : 1SS301 or DAN202U or MA142WK
 D2 : 1SS300 or DAP202U or MA142WA
 D6,7,76 : MA111
 D41 : S12B20(4072)
 D42,43,61,62 : UDZ5.6B
 D44 : UDZ3.9B
 D151,152 : UDZ7.5B

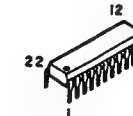
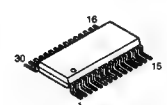
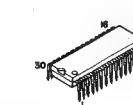
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

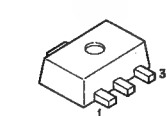
2SD2351



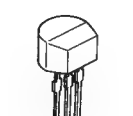
LC72131

NJU7311AM
NJU7313AMLA1837
LA1838

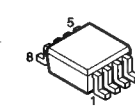
XC62FP5102P



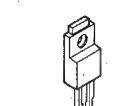
S-80840ANY



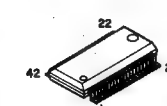
TC7WU04FU



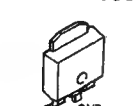
BA05T



M62446FP



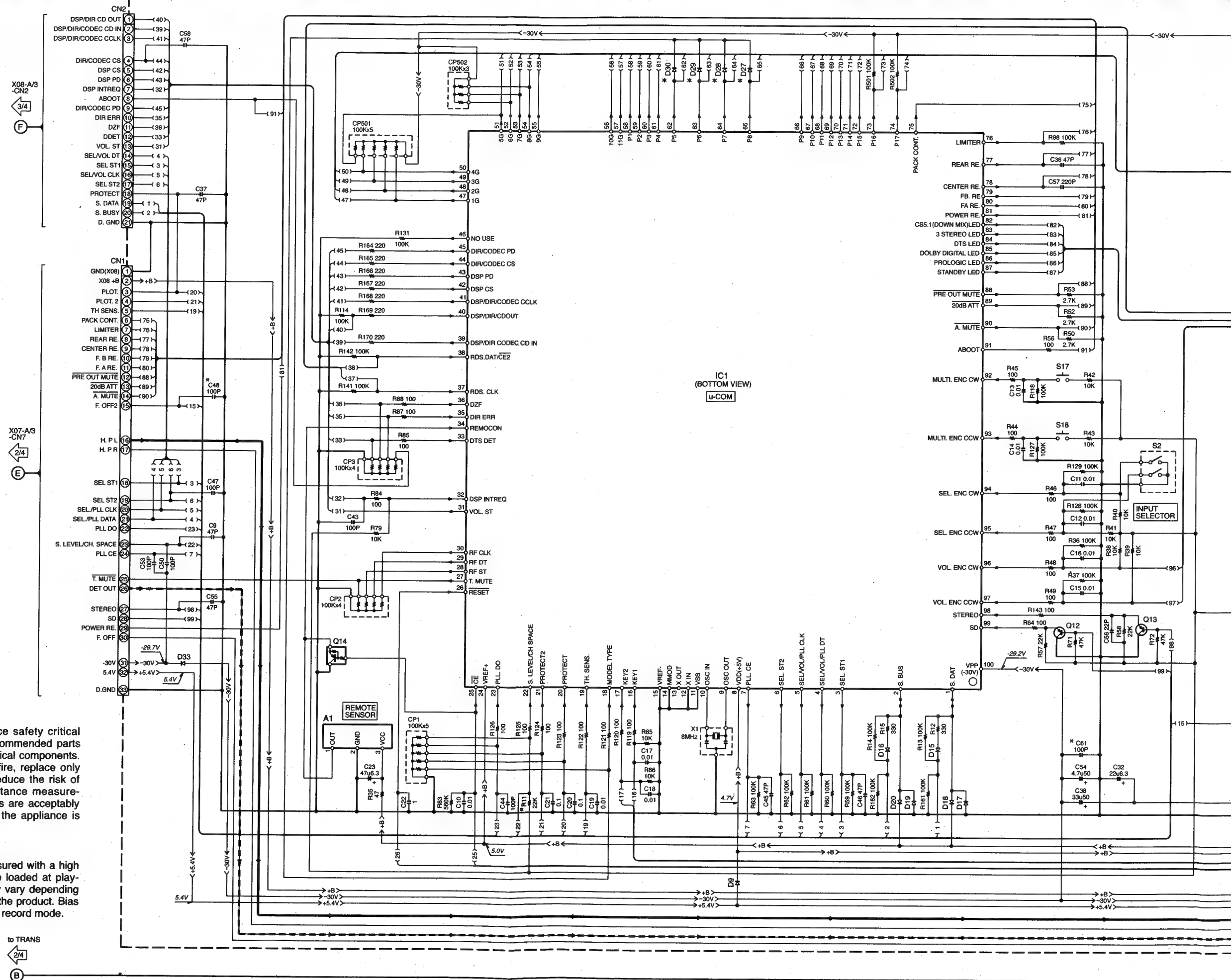
TA48M033F



VR-405/406/414 (3/4)
 KRF-V5030D/V5030D-S/V5030DE (3/4)
 KRF-V4530D (3/4)
 KRF-V6030D/V6030D-S/V6030DE (3/4)

KRF-V4530D/V5030D/V6030D/VR-405/406/414

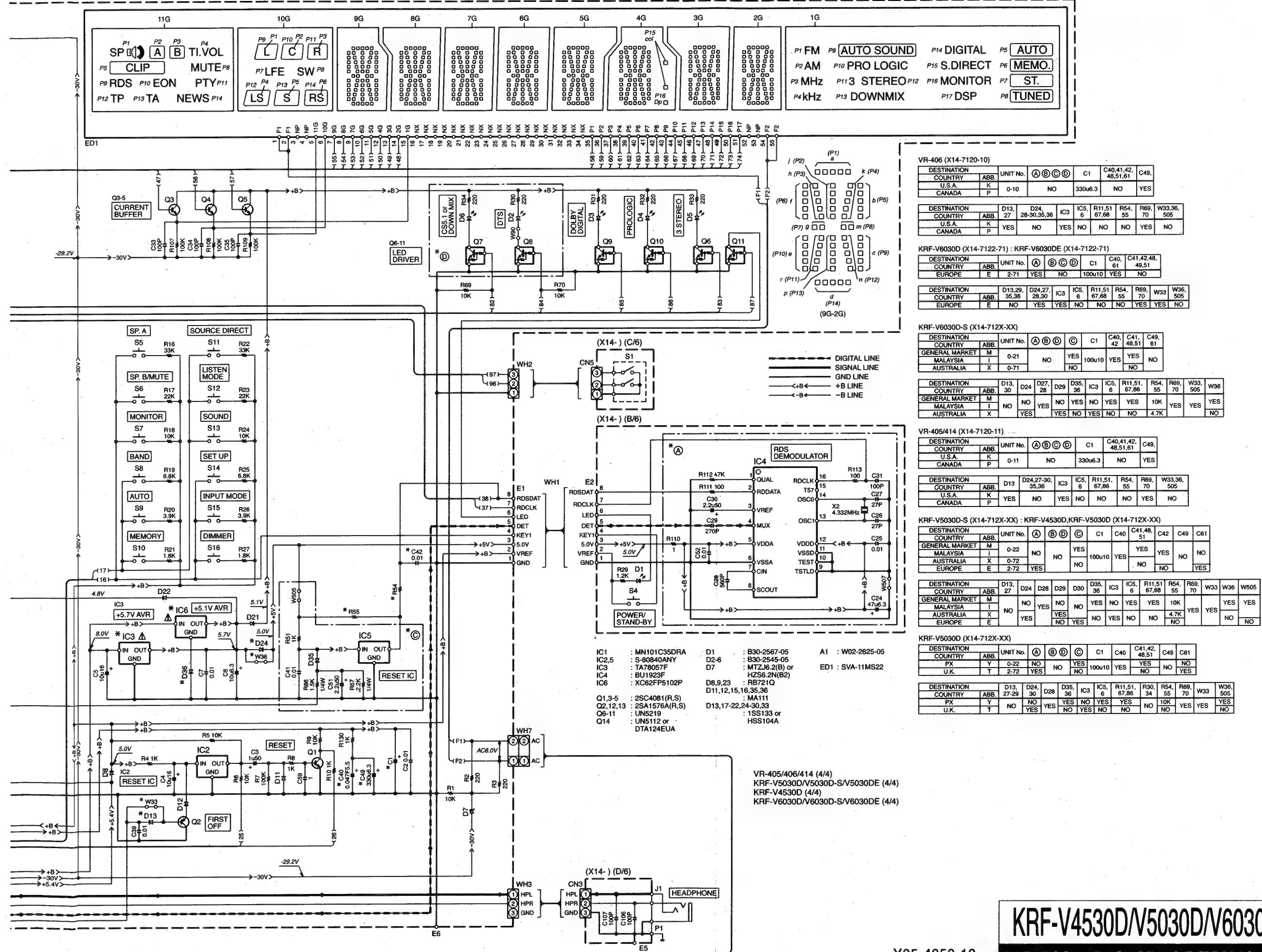
(X14-7XXX-XX) (A/6)



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at play-back mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

(X14-7XXX-XX) (A/6)



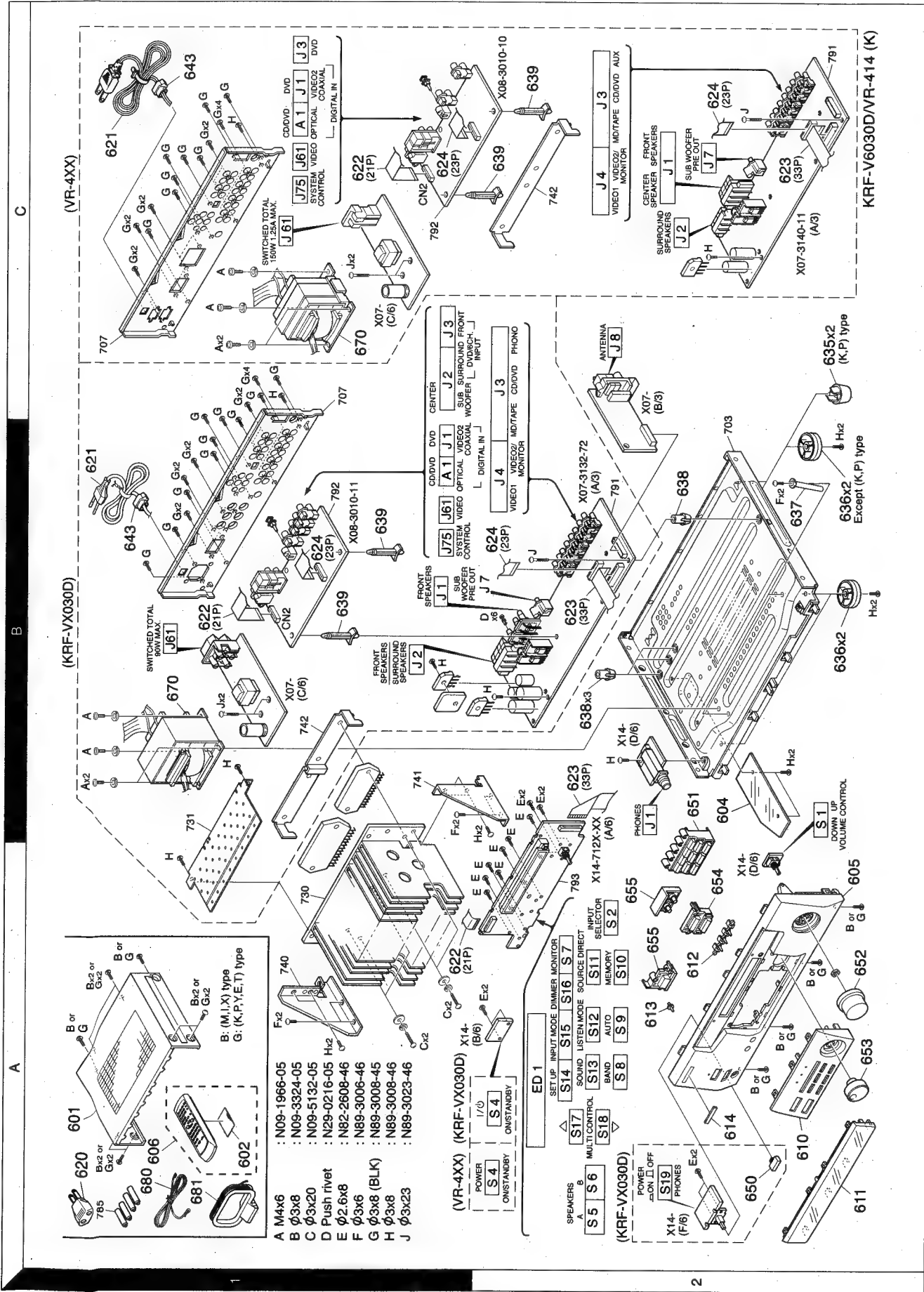
Y05-4050-10

KRF-V4530D/V5030D/V6030D/VR-405/406/414

KENWOOD

KRF-V4530D/V5030D/V6030D/VR-405/406/414

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

KRF-V4530D/V5030D/V6030D/VR-405/406/414

PARTS LIST

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
601	1A	*	H10-7628-02	POLYSTYRENE FOAMED FIXTURE	KP	
602	1A	*	H10-7629-02	POLYSTYRENE FOAMED FIXTURE	E6	
603	1A	*	H25-0232-04	PROTECTION BAG (235X350X0.03)	X	
604	2A	*	H25-0391-04	PROTECTION BAG	MI	
605	2A	*	H50-3607-04	ITEM CARTON CASE	E7	
606	2A	*	H50-3608-04	ITEM CARTON CASE	MI	
607	2A	*	H50-3609-04	ITEM CARTON CASE	E7	
608	2A	*	H50-3610-04	ITEM CARTON CASE	MI	
609	2A	*	H50-3651-04	ITEM CARTON CASE	E7	
610	2C	*	J02-1013-05	FOOT	KP	
611	2B	*	J02-1464-03	FOOT	E6	
612	2B	*	J19-2808-05	HOLDER	MI	
613	2B	*	J19-3752-14	UNIT HOLDER	E7	
614	1B	*	J19-5919-05	UNIT HOLDER	MI	
615	1B	*	J42-0083-05	POWER CORD BUSHING	E6	
616	1B	*	J61-0307-05	WIRE BAND	E6	
617	2A	*	K27-2384-04	KNOB (BUTTON)	MIX	
618	2A	*	K27-2385-04	KNOB (BUTTON)	KPE	
619	2B	*	K29-7675-12	KNOB	MIX	
620	2B	*	K29-7676-12	KNOB	KPE	
621	2A	*	K29-7678-04	KNOB	MIX	
622	2A	*	K29-7679-04	KNOB	MIX	
623	2A	*	K29-7681-14	KNOB	MIX	
624	2A	*	K29-7682-14	KNOB	MIX	
625	2A	*	K29-7684-03	KNOB	MIX	
626	2A	*	K29-7685-03	KNOB	MIX	
627	2A	*	K29-7687-03	KNOB	KPE	
628	2A	*	K29-7688-03	KNOB	MIX	
629	1B	*	L07-2787-05	POWER TRANSFORMER	KP	
630	1B	*	L07-2788-05	POWER TRANSFORMER	MI	
631	1B	*	L07-2789-05	POWER TRANSFORMER	E6	
632	1B	*	L07-2790-05	POWER TRANSFORMER	MIX	
633	1A	*	T90-0836-05	LEAD WIRE ANTENNA	E6	
634	1A	*	T90-0832-05	LOOP ANTENNA	E6	
KRF-V5030D/KRF-V4530D/VR-405/VR-414 (Y05-4050-10)						
601	1A	*	A01-3733-01	METALLIC CABINET	E1E2E4	
602	1A	*	A01-3734-01	METALLIC CABINET	KPYT	
603	1A	*	A01-3734-01	METALLIC CABINET	E3	
604	1A	*	A09-1178-08	BATTERY COVER	MIX	
605	2B	*	A46-0309-04	REAR COVER	KP	
606	2A	*	A60-1759-01	PANEL	MIXE3	
607	2A	*	A60-1780-11	PANEL	E1E2E4	
608	2A	*	A60-1781-11	PANEL	E1E2E4	
609	1A	*	A70-1328-05	REMOTE CONTROL (RC-R0509)	KPYMIX	
610	1A	*	A70-1329-05	REMOTE CONTROL (RC-R0510)	ET	
611	2A	*	B07-2477-02	ESCUTCHEON	E1E2E4	
612	2A	*	B07-2477-02	ESCUTCHEON	KPYT	
613	2A	*	B07-2478-02	ESCUTCHEON	MIXE3	
614	2A	*	B10-3552-02	FRONT GLASS	K5P5	
615	2A	*	B10-3553-02	FRONT GLASS	YMIX	
KRF-V6030D/VR-406 (Y05-4020-10)						
601	1A	*	A01-3733-01	METALLIC CABINET	KPE	
602	1A	*	A01-3734-01	METALLIC CABINET	MIX	
603	2A	*	A46-0309-04	REAR COVER	KP	
604	2A	*	A60-1759-01	PANEL	MIX	
605	2A	*	A60-1780-11	PANEL	E	
606	1A	*	A70-1331-05	REMOTE CONTROL (RC-R0609)	KPMIX	
607	2A	*	B07-2477-02	ESCUTCHEON	KPE	
608	2A	*	B07-2478-02	ESCUTCHEON	MIX	
609	2A	*	B10-3549-02	FRONT GLASS	KP	
610	2A	*	B10-3550-02	FRONT GLASS	MIX	
611	2A	*	B10-3551-02	FRONT GLASS	E	
612	2A	*	B12-0384-04	INDICATOR	X	
613	2A	*	B12-0385-04	INDICATOR	E	
614	2A	*	B43-0314-04	KENWOOD BADGE	K	
615	2A	*	B46-0096-53	WARRANTY CARD	P	
616	2A	*	B46-0310-03	WARRANTY CARD	X	
617	2A	*	B46-0328-03	QUESTIONNAIRE CARD	K	
618	2A	*	B46-0346-00	WARRANTY CARD	P	
619	2A	*	B46-0347-03	WARRANTY CARD	X	
620	2A	*	B58-0964-13	CAUTION CARD (UL)	MIE6	
621	2A	*	B58-0966-13	CAUTION CARD (PL)	E7	
622	2A	*	B58-0967-03	CAUTION CARD (PL)	KPMIX	
623	2A	*	B60-4598-00	INSTRUCTION MANUAL (EN)	P	
624	2A	*	B60-4599-00	INSTRUCTION MANUAL (FR)	M	
625	2A	*	B60-4600-00	INSTRUCTION MANUAL (TC)	MI	
626	2A	*	B60-4602-00	INSTRUCTION MANUAL (EN)	E7	
627	2A	*	B60-4603-00	INSTRUCTION MANUAL (ES)	KPMIX	
628	2A	*	B60-4604-00	INSTRUCTION MANUAL (FR)	M	
629	2A	*	B60-4605-00	INSTRUCTION MANUAL (IT/NE)	E6	
630	2A	*	B60-4606-00	INSTRUCTION MANUAL (RU/PL)	E7	
631	2A	*	B60-4607-00	INSTRUCTION MANUAL (CZ/HU)	KPMIX	
632	2A	*	B60-4617-00	INSTRUCTION MANUAL (EN)	P	
633	2A	*	B60-4618-00	INSTRUCTION MANUAL (FR)	M	
634	2A	*	B60-4619-00	INSTRUCTION MANUAL (ES)	MI	
635	2A	*	B60-4620-00	INSTRUCTION MANUAL (TC)	E7	
636	2A	*	B60-4622-00	INSTRUCTION MANUAL (S-L)	KPMIX	
637	2A	*	B60-4623-00	INSTRUCTION MANUAL (S-L)	M	
638	2A	*	E03-0115-05	AC PLUG ADAPTER	MI	
639	2A	*	E30-2717-05	AC POWER CORD	E7	
640	2A	*	E30-2941-05	AC POWER CORD	KPMIX	
641	2A	*	E30-2942-05	AC POWER CORD	M	
642	2A	*	E35-2455-05	FLAT CABLE (21P)	MI	
643	2A	*	E35-2456-05	FLAT CABLE (23P)	X	
644	2A	*	E35-2456-05	FLAT CABLE (33P)	KP	
645	2A	*	G10-0536-04	NON-WOVEN FABRIC	MIE	
646	2A	*	G11-2416-04	CUSHION	E	

KRF-V4530D/V5030D/V6030D/VR-405/406/414

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
635	2C	*	H50-3661-04	ITEM CARTON CASE	E2	
636	2B	*	H50-3734-04	ITEM CARTON CASE	E4	
637	2B	*	J02-1013-05	FOOT	KP	
638	2B	*	J02-1464-03	FOOT		
639	2C	*	J19-2808-05	HOLDER		
643	1C	*	J19-3752-14	UNIT HOLDER		
		*	J19-5919-05	UNIT HOLDER		
		*	J42-0083-05	POWER CORD BUSHING		
		*	J61-0307-05	WIRE BAND		
650	2A	*	K27-2384-04	KNOB (BUTTON)	E1E2E4	
650	2A	*	K27-2384-04	KNOB (BUTTON)	YT	
650	2A	*	K27-2385-04	KNOB (BUTTON)	MIXE3	
651	2B	*	K29-7675-12	KNOB	E1E2E4	
651	2B	*	K29-7675-12	KNOB	KPYT	
651	2B	*	K29-7676-12	KNOB	MIXE3	
652	2A	*	K29-7678-04	KNOB	E1E2E4	
652	2A	*	K29-7678-04	KNOB	KPYT	
653	2A	*	K29-7679-04	KNOB	MIXE3	
653	2A	*	K29-7681-14	KNOB	E1E2E4	
653	2A	*	K29-7681-14	KNOB	KPYT	
654	2A	*	K29-7682-14	KNOB	MIXE3	
654	2A	*	K29-7684-03	KNOB	E1E2E4	
654	2A	*	K29-7684-03	KNOB	KPYT	
655	2A	*	K29-7685-03	KNOB	MIXE3	
655	2A	*	K29-7687-03	KNOB	E1E2E4	
655	2A	*	K29-7687-03	KNOB	KPYT	
670	1C	*	L07-2794-05	POWER TRANSFORMER	K5P5	
670	1C	*	L07-2795-05	POWER TRANSFORMER	YMI	
670	1C	*	L07-2796-05	POWER TRANSFORMER	X	
670	1C	*	L07-2797-05	POWER TRANSFORMER	E	
670	1C	*	L07-2800-05	POWER TRANSFORMER	K4P4	
680	1A	*	T90-0836-05	LEAD WIRE ANTENNA		
681	1A	*	T90-0832-05	LOOP ANTENNA		
POWER SUPPLY (X00-3000-20) Y,M,I type only						
CN1			E40-8386-05	PIN ASSY		
F3			F06-3121-05	FUSE (SEMKO) (250V T3.15AL)		
CN2.3			J13-0075-05	FUSE CLIP		
S1			S62-0001-05	SLIDE SWITCH		
POWER AMP (X07-3130-11, X07-3140-10)						
C1			CK73FB1H223K	CHIP C	K	ET
C2			CK73FB1H103K	CHIP C	K	
C3			CK73FB1H103K	CHIP C	K	KPET
C4			CC73FCH1H331J	CHIP C	J	
C5.6			CK73FB1H103K	CHIP C	K	
C7			CE04LW1C470M	ELECTRO	16WV	
C8			CK73EB1H103K	CHIP C	K	YMI
C9			CC73FCH1H102J	CHIP C	J	MXIY
C10			CE04LW1C470M	ELECTRO	16WV	
C11, 12			CK73FB1H473K	CHIP C	K	

L: Scandinavia K: USA P: Canada R: Mexico C: China I: Malaysia
Y: PX(Far East/Hawaii) T: England E: Europe G: Germany V: China(Shanghai)
Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas Δ indicates safety critical components.

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Parts without **Parts No.** are not supplied.
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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
611	2A	*	B10-3574-02	FRONT GLASS	E1E2E3	
611	2A	*	B10-3575-02	FRONT GLASS	T	
611	2A	*	B10-3605-02	FRONT GLASS	K4P4	
612	2A	*	B12-0384-04	INDICATOR	E4	
613	2A	*	B12-0385-04	INDICATOR	X	
614	2A	*	B43-0314-04	KENWOOD BADGE	ET	
		*	B46-0096-53	WARRANTY CARD	KY	
		*	B46-0310-03	WARRANTY CARD		
		*	B46-0328-03	WARRANTY CARD		
		*	B46-0346-00	QUESTIONNAIRE CARD	K	
		*	B46-0347-03	WARRANTY CARD	P	
		*	B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
		*	B58-0945-03	CAUTION CARD (UL)	T	
		*	B58-0964-13	CAUTION CARD	KY	
		*	B58-0965-13	CAUTION CARD (PL)	XT	
		*	B58-0966-13	CAUTION CARD (PL)	E1E3E4	
		*	B58-0966-13	CAUTION CARD (PL)	MI	
		*	B58-0967-03	CAUTION CARD (L)	P	
		*	B58-1607-03	CAUTION CARD	E2	
		*	B59-1104-00	SERVICE DIRECTORY	Y	
		*	B60-4598-00	INSTRUCTION MANUAL(EN)	KPYMIX	
		*	B60-4599-00	INSTRUCTION MANUAL(FR)	P	
		*	B60-4600-00	INSTRUCTION MANUAL(TC)	MI	
		*	B60-4602-00	INSTRUCTION MANUAL(EN)	TIE2	
		*	B60-4603-00	INSTRUCTION MANUAL(ES)	E1E3E4	
		*	B60-4603-00	INSTRUCTION MANUAL(ES)	MI	
		*	B60-4604-00	INSTRUCTION MANUAL(FR/GE)	E1E3E4	
		*	B60-4605-00	INSTRUCTION MANUAL(T/NE)	E1E3E4	
		*	B60-4606-00	INSTRUCTION MANUAL(RU/PL)	E2	
		*	B60-4607-00	INSTRUCTION MANUAL(CZ/HU)	E2	
820	1A	*	E03-0115-05	AC PLUG ADAPTER	MI	
821	1C	*	E30-2605-05	AC POWER CORD	X	
821	1C	*	E30-2717-05	AC POWER CORD	X	
821	1C	*	E30-2721-05	AC POWER CORD	T	
821	1C	*	E30-2941-05	AC POWER CORD	KP	
821	1C	*	E30-2942-05	AC POWER CORD	MIE	
822	1A,1C	*	E35-2455-05	FLAT CABLE (21P)		
823	2B,2C	*	E35-2456-05	FLAT CABLE (33P)		
824	1C,2C	*	E35-2480-05	FLAT CABLE (23P)		
		*	G10-0536-04	NON-WOVEN FABRIC		
		*	G11-2416-04	CUSHION		
		*	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
		*	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	E	
		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMIX	
		*	H25-0391-04	PROTECTION BAG		
		*	H25-0651-04	PROTECTION BAG	T	
		*	H50-3611-04	ITEM CARTON CASE	K5P5	
		*	H50-3612-04	ITEM CARTON CASE	YEIT	
		*	H50-3613-04	ITEM CARTON CASE	XE3	
		*	H50-3614-04	ITEM CARTON CASE	MI	
		*	H50-3615-04	ITEM CARTON CASE	K4P4	

L: Scandinavia K: USA P: Canada R: Mexico C: China I: Malaysia
Y: PX(Far East/Hawaii) T: England E: Europe G: Germany V: China(Shanghai)
Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas Δ indicates safety critical components.

KRF-V4530D/V5030D/V6030D/VR-405/406/414

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C101,102			CC73FCH1H390J	39PF	ETXMIY	5
C103,104			CE04RW1V100M	10UF	J	6
C103,104			CE04RW1V100M	10UF	ETXMIY	5
C105,106			CC73FCH1H221J	220PF	J	6
C105,106			CC73FCH1H221J	220PF	ETXMIY	5
C107,108			CE04RW0J470M	47UF	6.3WV	6
C107,108			CE04RW0J470M	47UF	6.3WV	6
C109,110			CC73FCH1H471J	470PF	J	6
C109,110			CC73FCH1H471J	470PF	ETXMIY	5
C111,112			CQ93FMG1H123J	0.012UF	J	6
C111,112			CQ93FMG1H123J	0.012UF	ETXMIY	5
C113,114			CK45FB1H332K	3300PF	J	6
C113,114			CK45FB1H332K	3300PF	ETXMIY	5
C115,116			CE04LW1V47M	4.7UF	35WV	6
C115,116			CE04LW1V47M	4.7UF	ETXMIY	5
C117,118			CC45FCH1H101J	100PF	J	6
C117,118			CC45FCH1H101J	100PF	ETXMIY	5
C119,122			CC73FCH1H221J	220PF	J	6
C137,138			CE04LW1H2R2M	2.2UF	50WV	6
C137,138			CE04LW1H2R2M	2.2UF	ETXMIY	5
C139,140			CC73FCH1H101J	100PF	J	6
C141,142			CE04LW1H2R2M	2.2UF	50WV	6
C141,142			CE04LW1H2R2M	2.2UF	ETXMIY	5
C143,144			CE04LW1C220M	22UF	16WV	6
C143,144			CE04LW1C220M	22UF	ETXMIY	5
C147,148			CC73FCH1H471J	470PF	J	6
C147,148			CC73FCH1H471J	470PF	ETXMIY	5
C151,152			CC73FCH1H100D	10PF	D	6
C151,152			CC73FCH1H100D	10PF	ETXMIY	5
C153,154			CE04KW1H100M	10UF	50WV	6
C153,154			CE04KW1H100M	10UF	ETXMIY	5
C155,156			CE04KW1H2R2M	2.2UF	50WV	6
C155,156			CE04KW1H2R2M	2.2UF	ETXMIY	5
C157,158			CC73FCH1H102J	1000PF	J	6
C157,158			CC73FCH1H102J	1000PF	ETXMIY	5
C159,160			CK73FE1E104Z	0.10UF	Z	6
C159,160			CK73FE1E104Z	0.10UF	ETXMIY	5
C161,162			CC73FCH1H220J	22PF	J	6
C161,162			CC73FCH1H220J	22PF	ETXMIY	5
C163,164			CE04KW1A101M	100UF	10WV	6
C163,164			CE04KW1A101M	100UF	ETXMIY	5
C165,166			CC73FCH1H102J	100PF	J	6
C165,166			CC73FCH1H102J	100PF	ETXMIY	5
C167,170			CC73FE1E104Z	0.10UF	Z	6
C167,170			CC73FE1E104Z	0.10UF	ETXMIY	5
C171,172			CQ93FMG1H472J	4700PF	J	6
C171,172			CQ93FMG1H472J	4700PF	ETXMIY	5
C175,176			CC73FCH1H471J	470PF	J	6
C175,176			CC73FCH1H471J	470PF	ETXMIY	5
C177,178			CE04LW1E470M	47UF	25WV	6
C177,178			CE04LW1E470M	47UF	ETXMIY	5
C179,180			CC73FCH1H100D	10PF	D	6
C179,180			CC73FCH1H100D	10PF	ETXMIY	5
C181,182			CE04KW1H100M	10UF	50WV	6
C181,182			CE04KW1H100M	10UF	ETXMIY	5
C183,184			CE04KW1H2R2M	2.2UF	50WV	6
C183,184			CE04KW1H2R2M	2.2UF	ETXMIY	5
C185,186			CC73FCH1H102J	1000PF	J	6
C185,186			CC73FCH1H102J	1000PF	ETXMIY	5
C187,188			CC73FCH1H222K	22PF	J	6
C187,188			CC73FCH1H222K	22PF	ETXMIY	5
C189,190			CC45FCH1H220J	22PF	J	6
C189,190			CC45FCH1H220J	22PF	ETXMIY	5
C191,192			CC73FCH1H102J	1000PF	J	6
C191,192			CC73FCH1H102J	1000PF	ETXMIY	5
C193,194			CE04KW1A101M	100UF	10WV	6
C193,194			CE04KW1A101M	100UF	ETXMIY	5
C195,196			CK73FE1E104Z	0.10UF	Z	6
C195,196			CK73FE1E104Z	0.10UF	ETXMIY	5
C199			CQ93FMG1H472J	4700PF	J	6
C199			CQ93FMG1H472J	4700PF	ETXMIY	5
C200,201			CQ93FMG1H472J	4700PF	J	6
C200,201			CQ93FMG1H472J	4700PF	ETXMIY	5
C202			CQ93FMG1H472J	4700PF	J	6
C202			CQ93FMG1H472J	4700PF	ETXMIY	5
C205			CC73FCH1H471J	470PF	J	6
C205			CC73FCH1H471J	470PF	ETXMIY	5
C206			CE04LW1E470M	47UF	25WV	6
C206			CE04LW1E470M	47UF	ETXMIY	5
C207			CC73FCH1H100D	10PF	D	6
C207			CC73FCH1H100D	10PF	ETXMIY	5
C208			CE04KW1H100M	10UF	50WV	6
C208			CE04KW1H100M	10UF	ETXMIY	5
C209			CE04KW1H2R2M	2.2UF	50WV	6
C209			CE04KW1H2R2M	2.2UF	ETXMIY	5
C210			CC73FCH1H102J	1000PF	J	6
C210			CC73FCH1H102J	1000PF	ETXMIY	5

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C14			CE04LW1C100M	10UF	16WV	
C15			CE04LW1H101M	1.0UF	50WV	
C16			CE04RW1H47M	0.47UF	50WV	
C17			CE04LW1H101M	1.0UF	50WV	
C18			CC73FCH1H470J	47PF	J	
C19			CE04RW1A100M	10UF	10WV	
C20			CK73FB1H473K	0.047UF	K	
C21			CE04RW1V3R3M	3.3UF	35WV	
C22			CK73FB1H473K	0.047UF	K	
C23			CE04LW1C100M	10UF	16WV	
C24			CK73FB1H331K	330PF	K	
C25			CC73FCH1H181J	180PF	J	
C25			CC73FCH1H471J	470PF	ET	
C26			CK73FB1H183K	0.018UF	K	
C26			CK73FB1H223K	0.022UF	K	
C27			CE04HW1E47M	4.7UF	25WV	
C28,29			CE04LW1H2R2M	2.2UF	50WV	
C30,31			CK73FB1H223K	0.022UF	K	
C30,31			CK73FB1H333K	0.033UF	K	
C32			CE04LW1V47M	4.7UF	35WV	
C33,34			CK73FB1H103K	0.010UF	K	
C35			CK73FB1H332K	3300PF	K	
C36			CK73FB1H103K	0.010UF	K	
C37,38			CE04LW1C100M	10UF	16WV	
C41			CC73FCH1H470J	47PF	J	
C42			CC73FCH1H120J	12PF	J	
C43			CC73FCH1H100D	10PF	D	
C44			CK73FB1H471K	470PF	K	
C45			CC73FCH1H220J	22PF	J	
C46			CE04LW1C100M	10UF	16WV	
C47			CK73FB1H102K	1000PF	K	
C48			CE04LW1C470M	47UF	16WV	
C49			CE04LW1H2R2M	2.2UF	50WV	
C50			CC73FCH1H101J	100PF	J	
C51			CK73FB1H471K	470PF	K	
C52			CC73FCH1H101J	100PF	J	
C70,71			CK73FB1H682K	6800PF	K	
C72			CE04LW1H101M	1.0UF	50WV	
C73			CE04LW1C470M	47UF	16WV	
C74			CK73FB1H102K	1000PF	K	
C75			CC73FCH1H030C	3.0PF	C	
C76			CC73FCH1H470J	47PF	J	
C77			CC73FCH1H101J	100PF	J	
C78			CK73FB1H223K	0.022UF	K	
C79,80			CK73FB1H472K	4700PF	K	
C81			CK73FE1C105Z	1.0UF	Z	
C82			CK73FB1H103K	0.010UF	K	
C83			CC73FCH1H101J	100PF	J	
C84,85			CC73FB1H223K	0.022UF	K	
C86			CK73FB1H471K	470PF	K	
C88			CK73FB1H332K	3300PF	K	
C89,90			CK73FB1H472K	4700PF	K	
C91			CK73FE1C105Z	1.0UF	Z	
C101,102			CC73FCH1H221J	220PF	J	
C101,102			CC73FCH1H590J	39PF	J	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
CN2		*	E40-8197-05	SOCKET FOR PIN ASSY		
CN3			E40-8485-05	FLAT CABLE CONNECTOR	KPET	
CN4			E40-4871-05	PIN ASSY		
CN5			E40-9831-05	SOCKET FOR PIN ASSY		
CN6			E40-9848-05	PIN ASSY		
CN7		*	E40-8490-05	FLAT CABLE CONNECTOR		
CN61			E40-4245-05	PIN ASSY	KPETX	6
CN62			E40-4245-05	PIN ASSY	YMI	45
CN63			E40-4428-05	PIN ASSY		6
CN64			E40-4245-05	PIN ASSY	YMIKXET	45
CN65		*	E40-8196-05	PIN ASSY		
J1			E70-0049-05	SCREW TERMINAL BOARD		
J2		*	E70-0122-05	LOCK TERMINAL BOARD		
J3		*	E70-0057-05	LOCK TERMINAL BOARD		
J4		*	E70-0065-05	LOCK TERMINAL BOARD		
J7		*	E63-1143-05	PIN JACK	KPY	
J8		*	E63-1146-05	PIN JACK		
J8		*	E20-0321-05	LOCK TERMINAL BOARD(2P.F)		
J8		*	E70-0052-05	LOCK TERMINAL BOARD		
J61		*	E03-0148-05	AC OUTLET		
J61		*	E03-0149-05	AC OUTLET	MIE	
J61		*	E03-0310-05	AC OUTLET	T	
J61		*	E03-0325-05	AC OUTLET	X	
W182		*	E31-0001-00	JUMPER WIRE		56
F1		*	F05-2525-05	FUSE (SEMKO)	YMXI	5
F1		*	F05-3121-05	FUSE (SEMKO)	ET	6
F1		*	F05-3121-05	FUSE (SEMKO)	MIX	6
F1		*	F05-0076-05	FUSE (SEMKO)	KP	4
F1		*	F50-0077-05	FUSE(5X20)	KP	56
F2		*	F05-2525-05	FUSE (SEMKO)	E	
CN66.67			J13-0075-05	FUSE CLIP		
CN68.69			J13-0075-05	FUSE CLIP	E	
CF1.2		*	L72-0531-05	CERAMIC FILTER	YMXI	
CF1.2		*	L72-0536-05	CERAMIC FILTER	ET	
CF1.2		*	L72-0596-05	CERAMIC FILTER	KP	
CF3		*	L72-0607-05	CERAMIC FILTER	YMXI	
L1		*	L39-1384-05	COMBINATION COIL		
L2		*	L40-1091-82	SMALL FIXED INDUCTOR(1.0UH)		
L3		*	L30-0911-05	AM IFT	KP	
L4		*	L30-0933-05	FM IFT	ET	
L4		*	L30-0950-05	FM IFT	ET	
L5		*	L30-0951-05	FM IFT		
L6.7		*	L79-1236-05	LC FILTER	ET	
L101-105		*	L39-1373-05	PHASE COMPENSATION COIL		
T1		*	L07-2758-05	POWER TRANSFORMER	KPXET	
T1		*	L07-2761-05	POWER TRANSFORMER	KPXET	
T1		*	L07-2805-05	POWER TRANSFORMER	YMI	
X1		*	L77-2232-05	CRYSTAL RESONATOR		
R1			RK73FB2A101J	CHIP R		1/10W
R4			RK73FB2A681J	CHIP R		680
R5			RK73FB2A332J	CHIP R		3.3K
R6			RK73FB2A221J	CHIP R		220
R7			RK73FB2A821J	CHIP R		820

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C211			CK73FB1H222K	2200PF	K	
C212			CK45FCH1H220J	22PF	J	
C213			CK73FCH1H102J	1000PF	J	
C214			CE04KW1A101M	100UF	10WV	
C215.216			CK73FF1E104Z	0.10UF	Z	
C217			CQ93FMG1H472J	4700PF	J	
C220			CK73FCH1H471J	470PF	J	
C221			CE04LW1A101M	100UF	10WV	
C222			CK73FCH1H101J	100PF	J	
C223			CE04LW1H100M	10UF	50WV	
C224			CK73FCH1H221J	220PF	J	
C225.226			CK45FF1H103Z	0.010UF	Z	
C231.232		*	C90-3916-05	4700UF	75WV	56
C231.232		*	C90-3916-05	4700UF	75WV	
C231.232		*	C90-3918-05	4700UF	63WV	
C231.232		*	C90-3918-05	4700UF	63WV	
C231.232		*	C90-3918-05	4700UF	63WV	
C231.232		*	C90-3917-05	3300UF	42WV	4
C233.234		*	C90-3917-05	3300UF	42WV	56
C233.234		*	C90-3917-05	3300UF	42WV	
C233.234		*	C90-3919-05	35WV	35WV	
C235		*	CE04KW1E222M	2200UF	25WV	
C236			CE04KW1E471M	470UF	25WV	
C237.238			CE04LW1G101M	100UF	16WV	
C239			CE04LW1H220M	22UF	50WV	
C240			CE04LW1V470M	47UF	35WV	
C241			CC045FCH1H101J	100PF	J	
C241			CC045FCH1H101J	100PF	J	
C242			CK45FF1H103Z	0.010UF	Z	
C242			CK45FF1H103Z	0.010UF	Z	
C242			CK45FF1H103Z	0.010UF	Z	
C242			CK45FF1H103Z	0.010UF	Z	
C246			CK45FF1H103Z	0.010UF	Z	
C248			CK73FCH1H221J	220PF	J	
C250			CK73FCH1H102J	1000PF	J	
C251.252			CE04KW2A100M	10UF	100WV	
C253.254			CE04KW2A101M	100UF	100WV	
C255.256			CE04DW1J101M	100UF	63WV	6
C255.256			CE04DW1J101M	100UF	63WV	
C259			CE04LW1A101M	100UF	10WV	
C260			CE04LW0J221M	220UF	6.3WV	
C261			CE04LW1V477M	4.7UF	35WV	
C262			CE04LW0J221M	220UF	6.3WV	
C263			CE04LW1V477M	4.7UF	35WV	
C264			CE04LW1H010M	1.0UF	50WV	
C269			CK45FE2H103P	0.010UF	P	
C415			CE04LW1H010M	1.0UF	50WV	4
C416.417			CE04HW1E100M	10UF	25WV	
C601			CE04LW1E332M	3300UF	25WV	
C602			CE04LW1H100M	10UF	50WV	
C603			CK45FF1H103Z	0.010UF	Z	
C604			CE04LW1H100M	10UF	50WV	
C605			CE04LW0J222M	2200UF	6.3WV	
C606			CK73FB1E104K	0.10UF	K	
C606			CK73FB1H683K	0.088UF	K	
CN1			E40-8364-05	PIN ASSY	YMI	

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R74			RK73FB2A473J	CHIP R	J	1/10W
R75			RK73FB2A822J	CHIP R	J	1/10W
R76			RK73FB2A182J	CHIP R	J	1/10W
R77			RK73FB2A821J	CHIP R	J	1/10W
R78			RK73FB2A102J	CHIP R	J	1/10W
R79			RK73FB2A223J	CHIP R	J	1/10W
R80			RS14KB3A820J	FL-PROOF RS	J	1W
R81			RK73FB2A272J	CHIP R	J	1/10W
R82			RK73FB2A102J	CHIP R	J	1/10W
R83			RK73FB2B102J	CHIP R	J	1/8W
R84			RK73FB2A105J	CHIP R	J	1/10W
R85-87			RK73FB2A563J	CHIP R	J	1/10W
R88			RK73FB2A333J	CHIP R	J	1/10W
R89			RK73FB2A102J	CHIP R	J	1/10W
R101,102			RK73FB2A102J	CHIP R	J	1/10W
R103,104			RK73FB2A273J	CHIP R	J	1/10W
R105,106			RK73FB2A101J	CHIP R	J	1/10W
R105,106			RK73FB2A101J	CHIP R	J	1/10W
R115,116			RD14B82C102J	RD	J	1/6W
R117,118			RK73FB2A102J	CHIP R	J	1/10W
R119,120			RK73FB2A224J	CHIP R	J	1/10W
R121,122			RK73FB2A102J	CHIP R	J	1/10W
R123,124			RK73FB2A224J	CHIP R	J	1/10W
R125,126			RK73FB2A102J	CHIP R	J	1/10W
R127,128			RK73FB2A224J	CHIP R	J	1/10W
R129,130			RK73FB2A102J	CHIP R	J	1/10W
R131,132			RK73FB2A224J	CHIP R	J	1/10W
R133,134			RK73FB2A102J	CHIP R	J	1/10W
R135,136			RK73FB2A224J	CHIP R	J	1/10W
R137,138			RK73FB2A102J	CHIP R	J	1/10W
R139,140			RK73FB2A224J	CHIP R	J	1/10W
R141,142			RK73FB2A102J	CHIP R	J	1/10W
R143,144			RK73FB2A224J	CHIP R	J	1/10W
R153-156			RK73FB2A224J	CHIP R	J	1/10W
R159			RK73FB2A562J	CHIP R	J	1/10W
R161,162			RK73FB2A302J	CHIP R	J	1/10W
R163,164			RK73FB2A682J	CHIP R	J	1/10W
R165,166			RK73FB2A183J	CHIP R	J	1/10W
R167,168			RK73FB2A182J	CHIP R	J	1/10W
R169,170			RK73FB2A224J	CHIP R	J	1/10W
R171,172			RK73FB2A183J	CHIP R	J	1/10W
R173,174			RK73FB2A222J	CHIP R	J	1/10W
R175,176			RK73FB2A104J	CHIP R	J	1/10W
R177,178			RK73FB2A563J	CHIP R	J	1/10W
R179			RK73FB2A102J	CHIP R	J	1/10W
R180			RS14KB3DR22J	FL-PROOF RS	J	1/8W
R181-184			RK73FB2A563J	CHIP R	J	2W
R185,186			RK73FB2A182J	CHIP R	J	1/10W
R187,188			RK73FB2A222J	CHIP R	J	1/10W
R187,188			RK73FB2A242J	CHIP R	J	1/10W
R187,188			RK73FB2A272J	CHIP R	J	1/10W
R187,188			RK73FB2A272J	CHIP R	J	1/10W
R189,190			RS14KB3D120J	FL-PROOF RS	J	2W

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R8			RK73FB2A100J	CHIP R	J	1/10W
R8			RK73FB2A330J	CHIP R	J	1/10W
R9			RK73FB2A391J	CHIP R	J	1/10W
R10			RK73FB2A102J	CHIP R	J	1/10W
R11			RK73FB2A220J	CHIP R	J	1/10W
R11			RK73FB2A330J	CHIP R	J	1/10W
R12			RK73FB2A101J	CHIP R	J	1/10W
R14			RK73FB2A271J	CHIP R	J	1/10W
R15			RK73FB2A333J	CHIP R	J	1/10W
R15			RK73FB2A472J	CHIP R	J	1/10W
R16			RK73FB2A220J	CHIP R	J	1/10W
R17			RK73FB2A362J	CHIP R	J	1/10W
R18			RK73FB2A302J	CHIP R	J	1/10W
R19			RK73FB2A822J	CHIP R	J	1/10W
R20			RK73FB2A392J	CHIP R	J	1/10W
R23			RK73FB2A153J	CHIP R	J	1/10W
R23			RK73FB2A332J	CHIP R	J	1/10W
R23			RK73FB2A912J	CHIP R	J	1/10W
R25			RK73FB2A163J	CHIP R	J	1/10W
R25			RK73FB2A183J	CHIP R	J	1/10W
R25			RK73FB2A273J	CHIP R	J	1/10W
R27,28			RK73FB2A432J	CHIP R	J	1/10W
R27,28			RK73FB2A682J	CHIP R	J	1/10W
R27,28			RK73FB2A752J	CHIP R	J	1/10W
R29			RK73FB2A101J	CHIP R	J	1/10W
R30			RK73FB2A561J	CHIP R	J	1/10W
R31			RK73FB2A473J	CHIP R	J	1/10W
R32			RK73FB2A272J	CHIP R	J	1/10W
R33,34			RK73FB2A102J	CHIP R	J	1/10W
R35			RK73FB2A101J	CHIP R	J	1/10W
R36			RK73FB2A102J	CHIP R	J	1/10W
R37			RK73FB2A392J	CHIP R	J	1/10W
R38			RK73FB2A102J	CHIP R	J	1/10W
R39			RK73FB2A103J	CHIP R	J	1/10W
R42			RK73FB2A103J	CHIP R	J	1/10W
R44			RD14NB2E271J	RD	J	1/10W
R45			RK73FB2B102J	CHIP R	J	1/4W
R46			RK73FB2A102J	CHIP R	J	1/8W
R47			RK73FB2B102J	CHIP R	J	1/10W
R48			RK73FB2A102J	CHIP R	J	1/8W
R49			RK73FB2A103J	CHIP R	J	1/10W
R50			RD14NB2E471J	RD	J	1/10W
R51			RK73FB2A562J	CHIP R	J	1/10W
R52			RK73FB2A101J	CHIP R	J	1/10W
R53			RK73FB2A222J	CHIP R	J	1/10W
R54			RK73FB2A102J	CHIP R	J	1/10W
R55			RK73FB2A333J	CHIP R	J	1/10W
R56,57			RK73FB2A102J	CHIP R	J	1/10W
R58			RK73FB2A123J	CHIP R	J	1/10W
R59			RK73FB2A122J	CHIP R	J	1/10W
R72,73			RK73FB2A153J	CHIP R	J	1/10W
R72,73			RK73FB2A392J	CHIP R	J	1/10W
R72,73			RK73FB2A822J	CHIP R	J	1/10W

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R191,192 R199,200 R201,202 R203,204 R203,204			RS14KB3D381J RK73FB2A333J RK73FB2A303J RK73FB2A113J RK73FB2A113J	FL-PROOF RS CHIP R CHIP R CHIP R CHIP R	2W 1/10W 1/10W 1/10W 1/10W	5 5 ETMIXY KP
R203,204 R203,204 R205,206 R209,210 R211,212			RK73FB2A153J RK73FB2A912J RK73FB2A471J RK73FB2A102J RK73FB2A273J	CHIP R CHIP R CHIP R CHIP R CHIP R	1/10W 1/10W 1/10W 1/10W 1/10W	4 6 KP
R213,214 R215,216 R217,218 R219,220 R221,222			RK73FB2A182J RK73FB2A224J RK73FB2A183J RK73EB2B222J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	1/10W 1/10W 1/10W 1/8W 1/10W	5 5 6 6 ETMIXY
R223,224 R225 R227,230 R233,234 R233,234			RK73FB2A583J RK73FB2A102J RS14KB3DR22J RK73FB2A182J RK73FB2A222J	CHIP R CHIP R FL-PROOF RS CHIP R CHIP R	1/10W 1/10W 2W 1/10W 1/10W	6 5 5 5 6
R233,234 R233,234 R235,236 R243,244			RK73FB2A242J RK73FB2A272J RK73FB2A272J RS14KB3D120J RK73FB2A333J	CHIP R CHIP R CHIP R FL-PROOF RS CHIP R	1/10W 1/10W 1/10W 2W 1/10W	5 5 4 6 5
R245,246 R247,248 R247,248 R247,248 R247,248 R247,248			RK73FB2A303J RK73FB2A113J RK73FB2A113J RK73FB2A153J RK73FB2A912J	CHIP R CHIP R CHIP R CHIP R CHIP R	1/10W 1/10W 1/10W 1/10W 1/10W	5 5 5 4 6
R249,250 R251 R252 R253 R254			RK73FB2A471J RK73FB2A183J RK73FB2A182J RK73FB2A224J RK73FB2A183J	CHIP R CHIP R CHIP R CHIP R CHIP R	1/10W 1/10W 1/10W 1/10W 1/10W	45 5 4 6 5
R256 R257 R259,260 R262 R262			RK73FB2A104J RK73FB2A583J RS14KB3DR22J RK73FB2A182J RK73FB2A222J	CHIP R CHIP R FL-PROOF RS CHIP R CHIP R	1/10W 1/10W 2W 1/10W 1/10W	5 4 6 5
R262 R262 R262 R263 R267			RK73FB2A242J RK73FB2A272J RK73FB2A272J RS14KB3D120J RK73FB2A303J	CHIP R CHIP R CHIP R FL-PROOF RS CHIP R	1/10W 1/10W 1/10W 2W 1/10W	5 6 5 4 6
R268 R268 R268 R268 R269			RK73FB2A113J RK73FB2A113J RK73FB2A153J RK73FB2A912J RK73FB2A471J	CHIP R CHIP R CHIP R CHIP R CHIP R	1/10W 1/10W 1/10W 1/10W 1/10W	5 5 4 6 6
R270 R271 R272 R273 R274			RK73FB2A333J RK73FB2A183J RK73FB2A241J RK73FB2A332J RK73FB2A183J	CHIP R CHIP R CHIP R CHIP R CHIP R	1/10W 1/10W 1/10W 1/10W 1/10W	5 5 6 6 5

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Ref. No	Add-ress	Part No.	Description	Desti-nation	Re-marks
W656		R92-0670-05	CHIP R	YMI	6
W659		R92-0670-05	CHIP R	ET	
W660		R92-0670-05	CHIP R		
W662		R92-0670-05	CHIP R		
W680		R92-0679-05	CHIP R	IX	6
W683		R92-0679-05	CHIP R	KP	5
W683		R92-0679-05	CHIP R	KP	4
W683		R92-0679-05	CHIP R	KPM	6
W683		R92-0679-05	CHIP R	MIX	5
W684,685		R92-0679-05	CHIP R		
K1,2		S76-0042-05	MAGNETIC RELAY		6
K3		S76-0042-05	MAGNETIC RELAY		
K4		S76-0042-05	MAGNETIC RELAY		
K601		S76-0099-05	MAGNETIC RELAY	KP	5
K601		S76-0107-05	MAGNETIC RELAY	EMXI	5
S1		S62-0034-05	SLIDE SWITCH	YMI	
D1		UD23.3B	ZENER DIODE		
D101		D5SBA20F03	DIODE		
D102		S1ZB20(4101)	DIODE		
D103		D5SBA20F03	DIODE	KP	56
D103		D5SBA20F03	DIODE	XY	
D103		RBV-602LFA	DIODE	ETMI	
D104		HZS16N(B2)	ZENER DIODE		
D105		MTZJ16(B)	ZENER DIODE		
D105		HZS15N(B2)	ZENER DIODE		
D105		MTZJ15(B)	ZENER DIODE		
D106,107		MA111	DIODE	KP	5
D108		UD23.3B	ZENER DIODE	ET	
D108		UD25.6B	ZENER DIODE	E	6
D108		UD26.2B	ZENER DIODE	KPMXI	5
D108		UD26.8B	ZENER DIODE	KPMXI	5
D108		UD28.2B	ZENER DIODE	KPMXI	6
D109		UDZ10B	ZENER DIODE	E	6
D109		UDZ11B	ZENER DIODE	ET	5
D109		UDZ13B	ZENER DIODE	KP	4
D109		UDZ13B	ZENER DIODE	MI	5
D109		UDZ15B	ZENER DIODE	KPMXI	5
D109		UDZ16B	ZENER DIODE	KPMXI	5
D110		UDZ10B	ZENER DIODE	ET	5
D110		UDZ13B	ZENER DIODE	E	6
D110		UDZ13B	ZENER DIODE	KP	4
D110		UDZ13B	ZENER DIODE	KPMXI	5
D110		UDZ13B	ZENER DIODE	KPMXI	6
D111-115		MA111	DIODE	ETMXI	5
D117-120		UDZ15B	ZENER DIODE	KP	
D117-120		UDZ15B	ZENER DIODE		
D117-120		UDZ15B	ZENER DIODE		
D121		UDZ15B	ZENER DIODE		
D122		MA111	DIODE		
D123		UDZ3.9B	ZENER DIODE		
D123		HSS104A	DIODE		
D123		1SS133	DIODE		

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Ref. No	Add-ress	Part No.	Description	Desti-nation	Re-marks
R350		RK73FB2A1R0J	1	KP	5
R351		RK73FB2A103J	10K		
R352		RK73FB2A2E3J	22K		
R353		RK73FB2A102J	1.0K		
R356-358		RK73FB2A103J	10K		
R360		RK73FB2A103J	10K		
R361,362		RK73FB2A473J	47K		
R363		RK73FB2A361J	360		
R370		RK73FB2A102J	1.0K		
R371		RK73FB2A563J	56K		
R372		RK73FB2A104J	100K		
R373		RK73FB2A361J	360		
R375		RK73FB2A102J	1.0K		
R377,378		RK73FB2A102J	1.0K		
R384		RK73FB2B102J	1.0K		
R387,388		RK73FB2A473J	47K		
R389		RK73FB2A472J	47K		
R390		RK73FB2A473J	47K		
R391-394		RK73FB2A470J	47		
R397-399		RD14NB2E1R0J	1		
R601		RD14NB2E1R0J	1		
R604		RD14NB2E100J	10	KP	
R609		RD14NB2E390J	39	XET	
R609		RD14NB2E151J	150	ET	
R609		RD14NB2E181J	180	X	
R609		RD14NB2E2R2J	2.2	YMI	
R610		RD14NB2E270J	27	KP	
VR1		R92-1844-05	CARBON		
W108		R32-0037-05	SEMI FIXED VARIABLE RESISTOR		
W262		R92-0670-05	0 OHM		
W301		R92-0679-05	0 OHM		
W302		R92-0670-05	0 OHM		
W303-306		R92-0679-05	0 OHM		
W307		R92-0670-05	0 OHM		
W308		R92-0679-05	0 OHM		
W309-311		R92-0670-05	0 OHM		
W312		R92-0679-05	0 OHM		
W313		R92-0670-05	0 OHM		
W315-318		R92-0679-05	0 OHM		
W319,320		R92-0670-05	0 OHM		
W321		R92-0679-05	0 OHM		
W322,323		R92-0670-05	0 OHM		
W324-333		R92-0679-05	0 OHM		
W334,335		R92-0670-05	0 OHM		
W336		R92-0679-05	0 OHM		
W337,338		R92-0670-05	0 OHM		
W338,339		R92-0670-05	0 OHM		
W338,339		R92-0670-05	0 OHM		
W340,341		R92-0679-05	0 OHM		
W342,343		R92-0670-05	0 OHM		
W506		R92-0679-05	0 OHM		
W513,514		R92-0679-05	0 OHM		
W523		R92-0679-05	0 OHM		
W651-655		R92-0670-05	0 OHM		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q51-53			2SB1218A(Q,R)	TRANSISTOR		
Q54			2SB1640	TRANSISTOR		
Q113-117			2SC3906K	TRANSISTOR		
Q118			2SA1576A(R,S)	TRANSISTOR		
Q119,120			2SB1218A(Q,R)	TRANSISTOR		
Q121			2SC3906K	TRANSISTOR		
Q122,123			2SA1576A(R,S)	TRANSISTOR		
Q132			2SC3906K	TRANSISTOR		
Q133			2SB1566	TRANSISTOR		
Q134			2SC1845(F,E)	TRANSISTOR		
Q135			2SA1576A(R,S)	TRANSISTOR		
Q136			2SB1218A(Q,R)	DIGITAL TRANSISTOR		
Q137			UN5219	DIGITAL TRANSISTOR		
Q138			2SD2395	TRANSISTOR		
Q139,140			2SB1640	DIGITAL TRANSISTOR		
Q141			DTC123JUA	DIGITAL TRANSISTOR		
Q142			DTC123JUA	DIGITAL TRANSISTOR		
Q201			2SC4081(R,S)	TRANSISTOR		
Q202			2SD1819A(Q,R)	TRANSISTOR		
Q203,204			2SA1576A(R,S)	TRANSISTOR		
Q205			2SB1218A(Q,R)	TRANSISTOR		
Q206,207			2SC4081(R,S)	TRANSISTOR		
Q210,211			2SD1757K	TRANSISTOR		
Q212			2SA1576A(R,S)	TRANSISTOR		
Q214			2SB1218A(Q,R)	TRANSISTOR		
Q215			2SA1576A(R,S)	TRANSISTOR		
Q216			2SB1218A(Q,R)	TRANSISTOR		
Q601			2SC1740S(Q,R)	TRANSISTOR		
Q601			2SC2785(F,E)	TRANSISTOR		
A1			W02-2584-05	FM FRONT-END ASSY		
A1			W02-2622-05	FM FRONT-END ASSY		
PREAMP (X08-3010-10)						
C1,2			CE04RW1C100M	ELECTRO		
C3			CK73FB1H103K	CHIP C		
C4			CC73FCH1H101J	CHIP C		
C5,6			CK73FB1H222K	CHIP C		
C7,8			CK73FB1E104K	CHIP C		
C9,10			CE04RW1C47M	ELECTRO		
C21			CK73FB1E104K	CHIP C		
C22			CE04RW1H100M	ELECTRO		
C23			CK73FB1H102K	CHIP C		
C24,25			CK73FB1E104K	CHIP C		
C26			CK73FF1C105Z	CHIP C		
C27			C91-1597-05	CERAMIC		
C29			CK73FB1H103K	CHIP C		
C31			CC73FCH1H220J	CHIP C		
C32			CK73FB1H472K	CHIP C		
C33			CC73FCH1H220J	CHIP C		

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D124			UD23-9B	ZENER DIODE		
D125,126			HSS104A	DIODE	YMI	
D127,128			1SS133	DIODE	YMI	
D129			MA111	DIODE		6
D130			MA111	DIODE		
D201			DA204U	DIODE		
D201			MA143A	DIODE		
D203			1SS302	DIODE		
D203			HZS6.2N(B2)	ZENER DIODE		
D203			MTZJ8.2(B)	ZENER DIODE		
D204			HZS5.1N(B2)	ZENER DIODE		
D204			MTZJ5.1(B)	ZENER DIODE		
D209			HZS3.3N(B2)	ZENER DIODE		
D209			MTZJ3.3(B)	ZENER DIODE		
D211			MA111	DIODE		
D213			MA111	DIODE	ET	
D601			S17B20(4101)	DIODE		
D602-605			HSS104A	DIODE		
D602-605			1SS133	DIODE		
D608			HSS104A	DIODE		
D608			RB721Q	DIODE	KP	
IC101			1SS133	DIODE	YMI	
IC101			STK412-010A	HYBRID IC	KP	
IC101			STK412-010A	HYBRID IC	ETMXY	
IC101			STK412-010A	HYBRID IC	KP	
IC102			STK413-010A	HYBRID IC		
IC102			STK413-010A	HYBRID IC	ETMXY	
IC102			STK413-020A	HYBRID IC	KP	
IC103			KIA7812API	ANALOGUE IC		
IC104			KIA7912PI	ANALOGUE IC		
IC105			NUM4580ED	ANALOGUE IC		
IC105			NUM4580ED	ANALOGUE IC		
IC106			NUM7313AM	ANALOGUE IC		
IC107,108			NUM4565M	ANALOGUE IC		
IC109			NUM7313AM	ANALOGUE IC		
IC110-112			NUM4565M	ANALOGUE IC		
IC113			STK442-090	HYBRID IC		
IC114			STK443-090	HYBRID IC		
IC201			LA1837	ANALOGUE IC	KP	
IC201			LA1838	ANALOGUE IC	KPET	
IC202			LC72131	MOS-IC	MXIY	
IC601			XC62FP5102P	ANALOGUE IC		
IC602			BA05T	ANALOGUE IC	KP	
Q1,2			2SC1740S(Q,R)	TRANSISTOR	YMI	
Q1,2			2SC2785(F,E)	TRANSISTOR		
Q5,6			2SD2351	TRANSISTOR		
Q7,8			2SC1740S(Q,R)	TRANSISTOR		
Q7,8			2SC2785(F,E)	TRANSISTOR		
Q11,12			2SD2351	TRANSISTOR		
Q13,14			2SC1740S(Q,R)	TRANSISTOR		
Q13,14			2SC2785(F,E)	TRANSISTOR		
Q16			2SD2351	TRANSISTOR		
Q17			2SC2878(B)	TRANSISTOR		
Q51-53			2SA1576A(R,S)	TRANSISTOR		

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C455			CE04LW1A101M	ELECTRO	10WV	
C456, 457			CK73FB1E104K	CHIP C	0.10UF	
C458			C92-0047-05	CHIP-ELE	6.3WV	
C459, 460			CK73FB1E104K	CHIP C	0.10UF	
C461			CE04LW1E470M	ELECTRO	25WV	
C501-504			CK73FB1E104K	CHIP C	K	
C505			CK73FB1H102K	CHIP C	K	
C506			CK73FB1H102K	CHIP C	K	
C507			CK73FB1H103K	CHIP C	50WV	
C508			CE04LW1H2R2M	ELECTRO	2.2UF	
C509			CE04LW1E470M	ELECTRO	47UF	
C510, 511			CK73FB1H103K	CHIP C	0.010UF	
C601			CK73FB1H103K	CHIP C	47PF	
C602			CE04LW1E470M	ELECTRO	47UF	
C603			CK73FB1H104K	CHIP C	0.10UF	
C604			CE04LW1E470M	ELECTRO	47UF	
C607			CK73FB1H104K	CHIP C	25WV	
C608			CK73FB1H104K	CHIP C	25WV	
C609, 610			CK73FB1H104K	CHIP C	25WV	
C621, 622			CK73FB1E104K	CHIP C	47PF	
C751, 752			CK73FB1H102J	CHIP C	220PF	
C753			CK73FB1H103K	CHIP C	0.010UF	
CN1		*	E40-8485-05	FLAT CABLE CONNECTOR		
CN2		*	E40-8484-05	FLAT CABLE CONNECTOR		
CN5		*	E40-4248-05	PIN ASSY		
J1		*	E40-8358-05	PIN JACK		
J2		*	E63-1140-05	PIN JACK		
J3		*	E63-1139-05	PIN JACK		
J61		*	E63-1138-05	PIN JACK		
J75		*	E63-1141-05	PIN JACK		
E1, 2		*	E11-0293-05	MINIATURE PHONE JACK(2P)		
L31, 32		*	J11-0809-05	WIRE CLAMPER		
L41		*	L92-0511-05	CHIP FERRITE		
X1		*	L92-0510-05	CHIP FERRITE		
CP41-44		*	L77-2296-05	CRYSTAL RESONATOR(12.288MHZ)		
CP51, 52		*	R90-0728-05	MULTI-COMP	180 X4	
R1, 2		*	R90-0714-05	MULTI-COMP	10K X4	
R3, 4		*	CK73FB2A562J	CHIP R	5.6K	
R5, 6		*	CK73FB2A101J	CHIP R	100	
R7, 10		*	CK73FB2A471J	CHIP R	470	
R11, 12		*	CK73FB2A472J	CHIP R	47K	
R20		*	CK73FB2A471J	CHIP R	470	
R21		*	R92-1946-05	METAL GLAZE	4.7	
R31, 32		*	CK73FB2A221J	CHIP R	220	
R33		*	CK73FB2A820J	CHIP R	82	
R34		*	CK73FB2A471J	CHIP R	470	
R41, 42		*	RD14NB2E47J	CHIP R	4.7	
R43, 45		*	CK73FB2A105J	CHIP R	1.0M	
R54		*	CK73FB2A221J	CHIP R	220	
		*	CK73FB2A912J	CHIP R	9.1K	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C34			CK73FB1H472K	CHIP C	4700PF	
C35			CK73FF1C105Z	CHIP C	1.0UF	
C41			CK73FB1H220J	CHIP C	22PF	
C42			CK73FB1H220J	CHIP C	27PF	
C43, 44			CK73FB1H102K	CHIP C	1000PF	
C45			CK73FB1H103K	CHIP C	0.010UF	
C46			CK73FB1H220J	CHIP C	22PF	
C54, 55			CK73FB1H220J	CHIP C	22PF	
C56			CK73FB1H102K	CHIP C	1000PF	
C57			CK73FF1C105Z	CHIP C	1.0UF	
C58, 59			CK73FB1H103K	CHIP C	0.010UF	
C103, 104			CK73FF1C105Z	CHIP C	1.0UF	
C105, 106			CK73FB1H102K	CHIP C	1800PF	
C107, 108			CK73FB1H222K	CHIP C	2200PF	
C109			CK73FB1H103K	CHIP C	0.010UF	
C110			CK73FB1H101J	CHIP C	100PF	
C121, 122			CK73FB1H101J	CHIP C	100PF	
C125			CK73FB1H103K	CHIP C	0.010UF	
C126			CK73FB1H101J	CHIP C	100PF	
C141			CK73FB1H101J	CHIP C	100PF	
C151, 152			CK73FF1C225Z	CHIP C	2.2UF	
C153, 154			CK73FB1H101J	CHIP C	100PF	
C155, 156			CK73FF1C105Z	CHIP C	1.0UF	
C157-160			CK73FF1C225Z	CHIP C	2.2UF	
C161, 162			CK73FB1H822K	CHIP C	8200PF	
C163, 164			CK73FB1H153K	CHIP C	0.015UF	
C165, 166			CK73FB1C334K	CHIP C	0.33UF	
C167, 168			CK73FF1C225Z	CHIP C	2.2UF	
C169, 170			CK73FB1H222K	CHIP C	2200PF	
C177-182			CK73FF1C225Z	CHIP C	2.2UF	
C183			CK73FF1C105Z	CHIP C	1.0UF	
C184			CK73FB1H221J	CHIP C	220PF	
C185, 186			CK73FB1E104K	CHIP C	0.10UF	
C187, 188			CK73FB1H102K	CHIP C	1000PF	
C203, 204			CK73FF1C105Z	CHIP C	1.0UF	
C205, 206			CK73FB1H182K	CHIP C	1800PF	
C207, 208			CK73FB1H222K	CHIP C	2200PF	
C209			CK73FB1H103K	CHIP C	0.010UF	
C210			CK73FB1H101J	CHIP C	100PF	
C251-256			CK73FB1H221J	CHIP C	220PF	
C303, 304			CK73FF1C105Z	CHIP C	1.0UF	
C305			CK73FB1H182K	CHIP C	1800PF	
C306			CK73FB1H682K	CHIP C	6800PF	
C307			CK73FB1H222K	CHIP C	2200PF	
C308			CK73FB1H822K	CHIP C	8200PF	
C309			CK73FB1H103K	CHIP C	0.010UF	
C310			CK73FB1H101J	CHIP C	100PF	
C401-403			CK73FB1H103K	CHIP C	0.010UF	
C411-414			CK73FB1H220J	CHIP C	22PF	
C415-418			CK73FB1H101J	CHIP C	100PF	
C419			CK73FB1H100D	CHIP C	10PF	
C450			CK73FB1H103K	CHIP C	0.010UF	
C451			CK73FB1E104K	CHIP C	0.10UF	
C482			CE04LW1C222M	ELECTRO	2200UF	
C453, 454			CK73FB1E104K	CHIP C	0.10UF	

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KRF-V4530D/V5030D/V6030D/VR-405/406/414

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R485			RK73FB2A102J	CHIP R	J	1/10W
R501-503			RK73FB2A221J	CHIP R	J	1/10W
R505			RK73FB2A103J	CHIP R	J	1/10W
R514			RK73FB2A101J	CHIP R	J	1/10W
R515			RK73FB2A221J	CHIP R	J	1/10W
R516			RK73FB2A103J	CHIP R	J	1/10W
R517			RK73FB2A221J	CHIP R	J	1/10W
R518			RK73FB2A472J	CHIP R	J	1/10W
R519			RK73FB2A221J	CHIP R	J	1/10W
R520-521			RK73FB2A103J	CHIP R	J	1/10W
R522-523			RK73FB2A472J	CHIP R	J	1/10W
R524			RK73FB2A333J	CHIP R	J	1/10W
R527			RK73FB2A103J	CHIP R	J	1/10W
R601			RK73FB2A820J	CHIP R	J	1/10W
R603			RK73FB2A820J	CHIP R	J	1/10W
R607			RK73FB2A820J	CHIP R	J	1/10W
R609			RK73FB2A104J	CHIP R	J	1/10W
R610			RK73FB2A880J	CHIP R	J	1/10W
R611			RK73FB2A104J	CHIP R	J	1/10W
R612			RK73FB2A880J	CHIP R	J	1/10W
R613			RK73FB2A1R0J	CHIP R	J	1/10W
R631-632			RK73FB2A881J	CHIP R	J	1/10W
R633-634			R92-1954-05	METAL GLAZE	J	1/10W
D1			DAN202J	DIODE		
D1			MA142WK	DIODE		
D1			1SS301	DIODE		
D2			DAP202J	DIODE		
D2			MA142WA	DIODE		
D2			1SS300	DIODE		
D3			DAN202J	DIODE		
D3			MA142WK	DIODE		
D3			1SS301	DIODE		
D6			MA111	DIODE		
D41			S1ZB20(4072)	DIODE		
D42-43			UD25-6B	ZENER DIODE		
D44			UD23-9B	ZENER DIODE		
D51-52			MA111	DIODE		
D61-62			UD25-6B	ZENER DIODE		
D75-76			MA111	DIODE		
D151-152			UD27-5B	ZENER DIODE		
IC1			NJM4565MD	IC(OP AMP X2)		
IC2			AK4527-VQ	MOS-IC		
IC4			TC7WU04FU	MOS-IC		
IC5			AK4110-VF	MOS-IC		
IC6			TC7WH123FU	MOS-IC		
IC11			NJM4565MD	IC(OP AMP X2)		
IC12			NJU7311AM	MOS-IC		
IC13			NJM4565MD	IC(OP AMP X2)		
IC14			NJU7311AM	MOS-IC		
IC15			M62446FP	ANALOGUE IC		
IC21			NJM4565MD	IC(OP AMP X2)		
IC31			NJM4565MD	IC(OP AMP X2)		
IC41			TC74HC07AF	MOS-IC		
IC42			TC74HCT007AF	MOS-IC		

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R55-58			RK73FB2A221J	CHIP R	J	1/10W
R59			RK73FB2A101J	CHIP R	J	1/10W
R66			RK73FB2A104J	CHIP R	J	1/10W
R67			RK73FB2A103J	CHIP R	J	1/10W
R68			RK73FB2A221J	CHIP R	J	1/10W
R101-102			RK73FB2A221J	CHIP R	J	1/10W
R103-104			RK73FB2A104J	CHIP R	J	1/10W
R107-108			RK73FB2A222J	CHIP R	J	1/10W
R109-110			RK73FB2A103J	CHIP R	J	1/10W
R111-112			RK73FB2A472J	CHIP R	J	1/10W
R113-114			RK73FB2A221J	CHIP R	J	1/10W
R121-124			RK73FB2A103J	CHIP R	J	1/10W
R125-126			RK73FB2A101J	CHIP R	J	1/10W
R127-128			RK73FB2A242J	CHIP R	J	1/10W
R151-156			RK73FB2A100J	CHIP R	J	1/10W
R157-158			RK73FB2A102J	CHIP R	J	1/10W
R159-164			RK73FB2A101J	CHIP R	J	1/10W
R165			RK73FB2A751J	CHIP R	J	1/10W
R166			RK73FB2A272J	CHIP R	J	1/10W
R166-169			RK73FB2A1R0J	CHIP R	J	1/10W
R170-171			RK73FB2A471J	CHIP R	J	1/10W
R172-175			RK73FB2A473J	CHIP R	J	1/10W
R201-202			RK73FB2A102J	CHIP R	J	1/10W
R203-204			RK73FB2A104J	CHIP R	J	1/10W
R207-208			RK73FB2A472J	CHIP R	J	1/10W
R209-210			RK73FB2A272J	CHIP R	J	1/10W
R211-212			RK73FB2A562J	CHIP R	J	1/10W
R213-214			RK73FB2A221J	CHIP R	J	1/10W
R215-216			RK73FB2A472J	CHIP R	J	1/10W
R217-218			RK73FB2A562J	CHIP R	J	1/10W
R251-252			RK73FB2A153J	CHIP R	J	1/10W
R253-254			RK73FB2A223J	CHIP R	J	1/10W
R255-256			RK73FB2A103J	CHIP R	J	1/10W
R257-258			RK73FB2A223J	CHIP R	J	1/10W
R259-260			RK73FB2A103J	CHIP R	J	1/10W
R261-262			RK73FB2A223J	CHIP R	J	1/10W
R301			RK73FB2A222J	CHIP R	J	1/10W
R302			RK73FB2A103J	CHIP R	J	1/10W
R303-304			RK73FB2A104J	CHIP R	J	1/10W
R307			RK73FB2A222J	CHIP R	J	1/10W
R308			RK73FB2A123J	CHIP R	J	1/10W
R309-310			RK73FB2A103J	CHIP R	J	1/10W
R311-312			RK73FB2A472J	CHIP R	J	1/10W
R313-314			RK73FB2A221J	CHIP R	J	1/10W
R401-406			RK73FB2A471J	CHIP R	J	1/10W
R407			RK73FB2A473J	CHIP R	J	1/10W
R412			RK73FB2A221J	CHIP R	J	1/10W
R426-427			RK73FB2A221J	CHIP R	J	1/10W
R428			RK73FB2A1R0J	CHIP R	J	1/10W
R431-432			RK73FB2A103J	CHIP R	J	1/10W
R450-453			R92-1945-05	METAL GLAZE	J	1/4W
R454			R92-1946-05	METAL GLAZE	J	1/4W
R461-462			RK73FB2A221J	CHIP R	J	1/10W
R463			RK73FB2A473J	CHIP R	J	1/10W
R464			RK73FB2A472J	CHIP R	J	1/10W

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C48			CC73FCH1H101J	CHIP C	YMI	
C49			CE04RW0J331M	100PF	YMI	
C50			CC73FCH1H101J	330UF	YMI	
C51			CE04RW1H2R2M	100PF	ET	
C52		*	CK73FB1H103K	2.2UF		
C53			CC73FCH1H101J	0.010UF		
C54		*	CE04RW1H4R7M	100PF		
C55			CC73FCH1H470J	4.7UF		
C56			CC73FCH1H220J	47PF		
C57			CC73FCH1H221J	22PF		
C58			CC73FCH1H470J	220PF		
C59			CK73FF1C105Z	47PF		
C106,107			CC73FCH1H101J	1.0UF		
CN1		**	E40-8510-05	FLAT CABLE CONNECTOR		
CN2			E40-8504-05	FLAT CABLE CONNECTOR		
CN3			E40-3247-05	PIN ASSY		
CN5			E40-3261-05	PIN ASSY		
J1			E11-0272-05	PHONE JACK		
E5			J11-0808-05	WIRE CLAMPER		
X1		*	L78-0714-05	RESONATOR (8MHZ)	ET	
X2			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)		
CP1			R90-0855-05	MULTI-COMP		
CP2,3			R90-0482-05	MULTI-COMP		
CP501			R90-0855-05	MULTI-COMP		
CP502			R90-0850-05	MULTI-COMP		
R4			RK73FB2A102J	CHIP R		
R5			RK73FB2A103J	CHIP R		
R7			RK73FB2A104J	CHIP R		
R8			RK73FB2A102J	CHIP R		
R11			RK73FB2A223J	CHIP R		
R12			RK73FB2A331J	CHIP R		
R13,14			RK73FB2A104J	CHIP R		
R15			RK73FB2A331J	CHIP R		
R29			RK73FB2A122J	CHIP R		
R31,33			RK73FB2A221J	CHIP R		
R36,37			RK73FB2A104J	CHIP R		
R38,43			RK73FB2A103J	CHIP R		
R44,49			RK73FB2A101J	CHIP R		
R50			RK73FB2A272J	CHIP R		
R51			RK73FB2A102J	CHIP R		
R52,53			RK73FB2A272J	CHIP R		
R54,55			RK73FB2A103J	CHIP R		
R57,58			RK73FB2A223J	CHIP R		
R59,63			RK73FB2A104J	CHIP R		
R64			RK73FB2A101J	CHIP R		
R65,66			RK73FB2A103J	CHIP R		
R67			RD14NB2E222J	RD		
R69,70			RK73FB2A103J	CHIP R		
R71,72			RK73FB2A473J	CHIP R		
R83			RK73FB2A564J	CHIP R		
R86			RD14NB2E152J	RD		
R98			RK73FB2A104J	CHIP R		
R107-109			RK73FB2A104J	CHIP R		

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IC45		*	TA48M05F	ANALOGUE IC		
IC46		*	TA48M033F	ANALOGUE IC		
IC47		*	TA48M025F	ANALOGUE IC		
IC51		*	CS493253-CLR	MOS-IC		
IC51		*	CS493263-CLR	MOS-IC		
IC61			NJM2279M	ANALOGUE IC		
Q1			DTIC124EUA	DIGITAL TRANSISTOR		
Q15			UN5212	DIGITAL TRANSISTOR		
Q15		*	2SD1664(Q,R)	TRANSISTOR		
Q15		*	2SD1963(R,S)-G	TRANSISTOR		
Q16		*	2SB1132(Q,R)	TRANSISTOR		
Q16		*	2SB1308(Q,R)-G	TRANSISTOR		
Q41			2SC4081(R,S)	TRANSISTOR		
Q42			2SD1819A(Q,R)	TRANSISTOR		
Q42			2SA1576A(R,S)	TRANSISTOR		
Q42			2SB1218A(Q,R)	TRANSISTOR		
Q61		*	2SD1664(Q,R)	TRANSISTOR		
Q61		*	2SD1963(R,S)-G	TRANSISTOR		
Q62		*	2SB1132(Q,R)	TRANSISTOR		
Q62		*	2SB1308(Q,R)-G	TRANSISTOR		
A1		*	W02-2716-05	OPTIC RECEIVING MODULE		

DISPLAY (X14-7120-10)

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D1		*	B30-2567-05	LED(RED)(80) HI-BR)		
D3,5		*	B30-2545-05	LED(RED)(160)		
C1			CE04RW0J331M	ELECTRO	ET	
C2			CE04RW1A101M	ELECTRO	ET	
C3			CK73FB1H103K	CHIP C	ET	
C4,5			CE04RW1H101M	ELECTRO	ET	
C4,5			CE04RW1C100M	ELECTRO	ET	
C6		*	CE04RW0J100M	ELECTRO	ET	
C7			CK73FB1H103K	CHIP C	ET	
C9			CK73FCH1H470J	CHIP C	ET	
C10,19			CK73FB1H103K	CHIP C	ET	
C20,21			CK73FB1C104K	CHIP C	ET	
C22			CK73FE1C105Z	CHIP C	ET	
C23			CE04RW0J470M	ELECTRO	ET	
C24			CE04RW0J470M	ELECTRO	ET	
C25			CK73FB1H103K	CHIP C	ET	
C26,27			CK73FCH1H270J	CHIP C	ET	
C28			CK73FCH1H561J	CHIP C	ET	
C29			CK73FCH1H271J	CHIP C	ET	
C30			CE04RW1V2R2M	ELECTRO	ET	
C31		*	CK73FCH1H101J	CHIP C	ET	
C32			CE04RW0J220M	ELECTRO	ET	
C33			CK73FCH1H101J	CHIP C	ET	
C36,37			CK73FCH1H470J	CHIP C	ET	
C38		*	CE04RW1H330M	ELECTRO	ET	
C39			CK73FB1H103K	CHIP C	ET	
C40			C90-1826-05	BACKUP-C	ET	
C41			CK73FB1H103K	CHIP C	ET	
C42			CK73FB1H103K	CHIP C	ET	
C43,44			CK73FCH1H101J	CHIP C	ET	
C45,46			CK73FCH1H470J	CHIP C	ET	
C47			CK73FCH1H101J	CHIP C	ET	

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Q6	-11		UN5219	DIGITAL TRANSISTOR		
Q9	-13		2SA1576A(R,S)	DIGITAL TRANSISTOR		
Q12			DTA124EUA	DIGITAL TRANSISTOR		
Q14			UN5112	DIGITAL TRANSISTOR		
A1			W02-2625-05	OPTIC RECEIVING MODULE		

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HOW TO READ THE PARTS LIST
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ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
KRF-V4530D	5	-	-	-	-	E4	-	-	-
KRF-V5030D	5	-	-	-	-	E1	-	-	-
KRF-V6030D	5	-	-	-	-	E2	-	-	-
KRF-V6030D-S	5	X5	-	-	-	E3	-	-	I5
KRF-V6030D	6	-	-	-	-	E6	-	-	-
KRF-V6030D	6	-	-	-	-	E7	-	-	-
KRF-V6030D-S	6	X6	-	-	-	-	-	-	I6
VR-405	5	-	P5	-	-	-	-	-	-
VR-406	6	-	P6	-	-	-	-	-	-
VR-414	4	-	P4	-	-	-	-	-	-
MODEL	CNT	Mexico	Pakistan	Russia	Scandinavia	Shanghai	USA	Other area	Other area(I2)
KRF-V4530D	5	-	-	-	-	-	-	-	-
KRF-V5030D	5	-	-	-	-	-	-	-	-
KRF-V6030D	5	-	-	-	-	-	-	-	-
KRF-V6030D-S	5	-	-	-	-	-	-	-	-
KRF-V6030D	6	-	-	-	-	-	-	-	-
KRF-V6030D	6	-	-	-	-	-	-	-	-
KRF-V6030D-S	6	-	-	-	-	-	-	-	-
VR-405	5	-	-	-	-	-	-	-	-
VR-406	6	-	-	-	-	-	-	-	-
VR-414	4	-	-	-	-	-	-	-	-

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R110			RK73FB2A1R0J	CHIP R	ET	
R111			RK73FB2A101J	CHIP R	ET	
R112			RK73FB2A473J	CHIP R	ET	
R113			RK73FB2A101J	CHIP R	ET	
R114			RK73FB2A104J	CHIP R	ET	
R118			RK73FB2A104J	CHIP R	ET	
R119-126			RK73FB2A101J	CHIP R	ET	
R127-129			RK73FB2A104J	CHIP R	ET	
R130			RK73FB2A102J	CHIP R	ET	
R141, 142			RK73FB2A104J	CHIP R	ET	
R143			RK73FB2A101J	CHIP R	ET	
R161, 162			RK73FB2A104J	CHIP R	ET	
R501, 502			RK73FB2A104J	CHIP R	ET	
W503			R92-0679-05	CHIP R	ET	
W505			R92-0679-05	CHIP R	ET	
W509			R92-0679-05	CHIP R	ET	
W514			R92-0679-05	CHIP R	ET	
S4-18			S70-0031-05	TACT SWITCH	YMI	
S19			S68-0107-05	PUSH SWITCH	YMI	
S1			T99-0602-05	ROTARY ENCODER	YMI	
S2			T99-0630-05	ROTARY ENCODER	YMI	
D7			HZS6.2N(B2)	ZENER DIODE	ETX	
D8, 9			MTZJ6.2(B)	ZENER DIODE	ETX	
D11, 12			RB7210	DIODE	ETX	
D13			MA111	DIODE	ETX	
D13			HSS104A	DIODE	ETX	
D13			1SS133	DIODE	ETX	
D15, 16			MA111	DIODE	ETX	
D17-22			HSS104A	DIODE	ETX	
D17-22			1SS133	DIODE	ETX	
D24			HSS104A	DIODE	ETX	
D27			1SS133	DIODE	ETX	
D27			HSS104A	DIODE	ETX	
D28			HSS104A	DIODE	ETX	
D28			1SS133	DIODE	ETX	
D29			HSS104A	DIODE	ETX	
D29			1SS133	DIODE	ETX	
D30			HSS104A	DIODE	ETX	
D30			1SS133	DIODE	ETX	
D33			HSS104A	DIODE	ETX	
D33			1SS133	DIODE	ETX	
D35, 36			MA111	DIODE	ETX	
ED1			SVA-11MS22	FLUORESCENT INDICATOR TUBE	ETX	
IC1			MINIOTC35DRA	MI-COM IC	ETX	
IC2			S-80840ANY	ANALOGUE IC	ETX	
IC3			TA78057F	ANALOGUE IC	ETX	
IC4			BU1923F	ANALOGUE IC	ETX	
IC5			S-80840ANY	ANALOGUE IC	ETX	
IC6			XC62FP5102P	ANALOGUE IC	ETX	
Q1			2SC4081(R,S)	TRANSISTOR	ETX	
Q2			2SA1576A(R,S)	TRANSISTOR	ETX	
Q3-5			2SC4081(R,S)	TRANSISTOR	ETX	

L: Scandinavia K: USA P: Canada R: Mexico C: China I: Malaysia
Y: PFI(Far East, Hawaii) T: England E: Europe G: Germany V: China(Shanghai)
Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas Δ indicates safety critical components

KRF-V4530D/V5030D/V6030D/VR-405/406/414

SPECIFICATIONS

For U.S.A and Canada

AUDIO section (VR-407/406)

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz (VR-407), 40Hz (VR-406) to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 Ω one channel driven)	100 W + 100 W
CENTER (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 Ω one channel driven)	100 W
SURROUND (20-20kHz/VR-407, 40-20kHz/VR-406, 0.7% T.H.D. at 8 Ω one channel driven)	100 W + 100 W
Total harmonic distortion	0.055% (1 kHz, 50W, 8 Ω)
Frequency response	
CD	10 Hz ~ 53 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
CD	91 dB
Input sensitivity / impedance	
PHONO (MM)	2.5 mV / 27 k Ω
CD	200 mV / 47 k Ω
MONITOR IN (VR-406:VIDEO2/MONITOR)	200 mV / 47 k Ω
Output level / impedance	
TAPE REC	200 mV / 1 k Ω
MONITOR OUT (VR-406:VIDEO2/MONITOR)	200 mV / 1 k Ω
PRE OUT (SUBWOOFER)	2 V / 2.2 k Ω
Tone control	
BASS	± 10 dB (at 100 Hz)
TREBLE	± 10 dB (at 10 kHz)

AUDIO section (VR-405/414)

Rated power output during STEREO operation

80 watts (VR-405), 50watts (VR-414) per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (40-20kHz, 0.7% T.H.D. at 8 Ω one channel driven)	80 W + 80 W (VR-405), 50 W + 50 W (VR-414)
CENTER (40-20kHz, 0.7% T.H.D. at 8 Ω one channel driven)	80 W (VR-405), 50 W (VR-414)
SURROUND (40-20kHz, 0.7% T.H.D. at 8 Ω one channel driven)	80 W + 80 W (VR-405), 50 W + 50 W (VR-414)
Total harmonic distortion	0.055% (1 kHz, 40W, 8 Ω)
Frequency response	
CD	10 Hz ~ 53 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	
CD	91 dB
Input sensitivity / impedance	
CD	200 mV / 47 k Ω
MONITOR IN (VIDEO2/MONITOR)	200 mV / 47 k Ω
Output level / impedance	
TAPE REC	200 mV / 1 k Ω
MONITOR OUT (VIDEO2/MONITOR)	200 mV / 1 k Ω
PRE OUT (SUBWOOFER)	2 V / 2.2 k Ω
Tone control	
BASS	± 10 dB (at 100 Hz)
TREBLE	± 10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency	32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length	
Optical	(-15 dBm ~ -21 dBm), 660 nm ± 30 nm
Coaxial	0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs

VIDEO (composite)	1 Vp-p / 75 Ω
S VIDEO (VR-407 only)	
(luminance signal)	1 Vp-p / 75 Ω
(chrominance signal)	0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)	1.6 μ V (75 Ω) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity	
STEREO	31.6 μ V (75 Ω) / 41.2 dBf
Total harmonic distortion (1 kHz)	
MONO	0.6% (65 dBf input)
STEREO	0.7% (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)	
MONO	75 dB (65 dBf input)
STEREO	68 dB (65 dBf input)
Stereo separation (1 kHz)	38 dB
Selectivity (± 400 kHz)	70 dB
Frequency response	(30 Hz ~ 15kHz), +0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range	
10 kHz step	530 kHz ~ 1,700 kHz
Usable sensitivity (30% mod., S/N 20 dB)	16 μ V / (600 μ V/m)
Signal to noise ratio (30% mod. 1 mV input)	50 dB

GENERAL

Power consumption (VR-414)	2.3 A
(VR-405)	2.0 A
(VR-407/406)	2.6 A
AC outlet	
SWITCHED	(total 150 W, 1.25 A max.)
Dimensions	W : 440 mm (17-5/16")
	H : 143 mm (5-5/8")
	D : 400 mm (15-3/4")
Weight (Net)	7.2 kg (15.8 lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V4530D/V5030D/V6030D/VR-405/406/414

SPECIFICATIONS

For other countries

AUDIO section (KRF-V7030D/V6030D)

Effective power output during STEREO operation
1 kHz, 10% T.H.D., at 8 Ω 140 W + 140 W
Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz (KRF-V6030D), 20 Hz (KRF-V7030D) to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation
FRONT (1kHz, 10% T.H.D. at 8 Ω one channel driven) 140 W + 140 W
CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven) 140 W
SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven) 140 W + 140 W
Total harmonic distortion 0.055% (1 kHz, 50W, 8 Ω)
Frequency response
CD 10 Hz ~ 50 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)
PHONO (MM) 75 dB
CD 91 dB
Input sensitivity / impedance
PHONO (MM) 2.5 mV / 27 k Ω
CD 200 mV / 47 k Ω
MONITOR IN (KRF-V6030D:VIDEO2/MONITOR) 200 mV / 47 k Ω
Output level / impedance
TAPE REC 200 mV / 1 k Ω
MONITOR OUT (KRF-V6030D:VIDEO2/MONITOR) 200 mV / 1 k Ω
PRE OUT (SUBWOOFER) 2 V / 2.2 k Ω
Tone control
BASS (For Australia and U.S-Military) ± 10 dB (at 100 Hz)
BASS (Other countries) ± 10 dB (at 60 Hz)
TREBLE ± 10 dB (at 10 kHz)

AUDIO section (KRF-V5030D)

Effective power output during STEREO operation
(1 kHz, 10%, 8 Ω) 110 W + 110 W

80 watts channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
FRONT (1kHz, 10% T.H.D. at 8 Ω one channel driven) 110 W + 110 W
CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven) 110 W
SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven) 110 W + 110 W
Total harmonic distortion 0.055% (1 kHz, 40W, 8 Ω)
Frequency response
CD 10 Hz ~ 53 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)
PHONO (MM) 73 dB
CD 91 dB
Input sensitivity / impedance
PHONO (MM) 2.5 mV / 27 k Ω
CD 200 mV / 47 k Ω

MONITOR IN (VIDEO2/MONITOR) 200 mV / 47 k Ω
Output level / impedance
TAPE REC 200 mV / 1 k Ω
MONITOR OUT (VIDEO2/MONITOR) 200 mV / 1 k Ω
PRE OUT (SUBWOOFER) 2 V / 2.2 k Ω
Tone control
BASS (For Australia and U.S-Military) ± 10 dB (at 100 Hz)
BASS (Other countries) ± 10 dB (at 60 Hz)
TREBLE ± 10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency 32 kHz, 44.1 kHz, 48 kHz, 96kHz
Input level / impedance / wave length
Optical (-15 dBm ~ -21 dBm), 660 nm ± 30 nm
Coaxial 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) 1 Vp-p / 75 Ω
S VIDEO (KRF-V7030D only)
(luminance signal) 1 Vp-p / 75 Ω
(chrominance signal) 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6 μ V (75 Ω) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
STEREO 31.6 μ V (75 Ω) / 41.2 dBf
Total harmonic distortion (1 kHz)
MONO 0.6% (65 dBf input)
STEREO 0.7% (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)
MONO 75 dB (65 dBf input)
STEREO 68 dB (65 dBf input)
Stereo separation (1 kHz) 38 dB
Selectivity (± 400 kHz) 50 dB
Frequency response (30 Hz ~ 15kHz), +0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range
9 kHz step 531 kHz ~ 1,602 kHz
10 kHz step 530 kHz ~ 1,610 kHz
Usable sensitivity 16 μ V / (600 μ V/m)
Signal to noise ratio (30% mod. 1 mV input) 50 dB

GENERAL

Power consumption
KRF-V5030D 190 W
KRF-V7030D/V6030D 250 W
AC outlet
SWITCHED (total 90 W max.)
Dimensions W : 440 mm
H : 143 mm
D : 400 mm
Weight (Net)(KRF-V7030D/V6030D) 7.4 kg
(Net)(KRF-V5030D) 7.2 kg

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V4530D/V5030D/V6030D/VR-405/406/414

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150-8501 Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic de Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Av. Moema, 170-17, Andar-Cobertura "B", Ed. Maximum Service Center, 04077-020 Moema, São Paulo-SP-Brasil

KENWOOD ELECTRONICS U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB., United Kingdom

KENWOOD ELECTRONICS BELGIUM N.V.

Meachelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001 499 074)
16 Giffnock Avenue, North Ryde, N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane #02-02, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1 46300 Petaling Jaya Selangor Darul Ehsan Malaysia

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

2019 New Pechburi Road, Bangkok, Huaykwang, Bangkok, 10320 Thailand